PROGRAMMED ARITHMETIC WORKBOOK



TWO

K. A. Hesse

Programmed Arithmetic Workbook

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NOTES FOR THE TEACHER

Success, even if it is only limited, encourages in children that sense of achievement which is the key to progress. Conversely, nothing dulls their enthusiasm more quickly than needless repetition of a process which has already been mastered.

It is this principle on which the *Programmed Arithmetic Workbooks* have been planned. After any necessary assistance from the teacher in the initial stages each pupil, according to his ability, creates his own programme in mastering the number combinations. This is how a programme is achieved:

> After a few sections to revise the work of the previous book, graded practice of new number combinations is provided and the pupils are then presented with a test line. Success at the first attempt is followed by instructions to proceed to the next test line; partial success is followed by directions to further practice and thence to an alternative test line, and to still further practice should that be necessary. In addition to extending the four rules in Number, this book introduces similar treatment of tables relating to Money, Length and Capacity.

The sequence of practice, test, correction, practice and re-test, is interrupted at intervals by groups of revision sums. All pupils, irrespective of their ability, are led by the instructions to work on these groups. It is suggested that the brighter pupils be encouraged to use these revision groups to "work against the clock" and so improve their speed with accuracy.

An edition with answers is available.

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A



How many children are there?
How many girls are there?
How many boys are there?

Complete: $3 + 4 =$ $4 + 3 =$ $7 - 4 =$ $7 - 3 =$ $7 = 3 + \dots$ $7 = 4 + \dots$

go to B

B



How many birds are there?
How many birds are on the wire?
How many birds are flying?

Complete: $7 + 6 =$ $6 + 7 =$ $13 - 7 =$ $13 - 6 =$ $13 = 7 + \dots$ $13 = 6 + \dots$

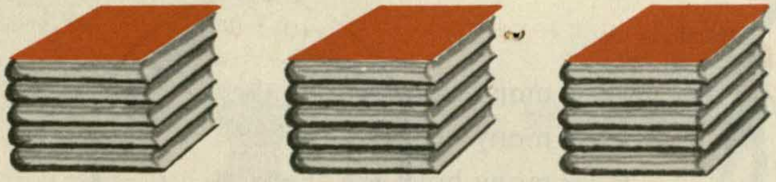
go to C

C **Complete:**

$8 + 5 =$	$5 + 8 =$	$13 - 5 =$	$13 - 8 =$	$13 = 8 + \dots$	$13 = 5 + \dots$	$7 + 3 =$
$6 + 3 =$	$3 + 6 =$	$9 = 6 + \dots$	$9 = 3 + \dots$	$9 - 6 =$	$9 - 3 =$	$4 + 6 =$
$7 + 4 =$	$4 + 7 =$	$11 = 7 + \dots$	$11 = 4 + \dots$	$11 - 7 =$	$11 - 4 =$	$3 + 8 =$
$5 + 7 =$	$7 + 5 =$	$12 = 5 + \dots$	$12 - 5 =$	$12 = 7 + \dots$	$12 - 7 =$	$12 - 5 =$
$8 + 6 =$	$6 + 8 =$	$14 = 8 + \dots$	$14 = 6 + \dots$	$14 - 6 =$	$14 - 8 =$	$14 - 7 =$
$7 + 9 =$	$9 + 7 =$	$16 - 7 =$	$16 - 7 =$	$16 = 7 + \dots$	$16 = 9 + \dots$	$16 - 8 =$

go to page 2, A

A



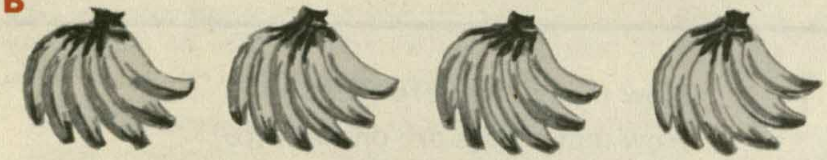
How many books are there in each pile?
How many piles of books are there?
How many books are there altogether?
If all the books were put into 5 equal piles how many would there be in each pile?

Complete:

$3 \times 5 =$ $5 \times 3 =$ $5 \times \ldots = 15$ $3 \times \ldots = 15$ $15 \div 3 =$ $15 \div 5 =$

go to B

B



How many bananas are there in each bunch?
How many bunches are there?
How many bananas are there altogether?
If all the bananas were in 6 equal bunches how many would there be in each bunch?

Complete:

$4 \times 6 =$ $6 \times 4 =$ $24 = 6 \times \ldots$ $24 \div 6 =$ $24 = 4 \times \ldots$ $24 \div 4 =$ $24 \div 6 =$

go to C

C **Complete; work across page:**

$2 \times 3 =$	$3 \times 2 =$	$6 = 3 \times \ldots$	$6 = 2 \times \ldots$	$6 \div 3 =$	$6 \div 2 =$	$4 \div 2 =$
$2 \times 6 =$	$6 \times 2 =$	$12 = 2 \times \ldots$	$12 = 6 \times \ldots$	$12 \div 6 =$	$12 \div 2 =$	$10 \div 5 =$
$3 \times 4 =$	$4 \times 3 =$	$12 = 3 \times \ldots$	$12 \div 3 =$	$12 = 4 \times \ldots$	$12 \div 4 =$	$9 \div 3 =$
$6 \times 3 =$	$3 \times 6 =$	$18 = 6 \times \ldots$	$18 \div 6 =$	$18 = 3 \times \ldots$	$18 \div 3 =$	$15 \div 5 =$
$4 \times 5 =$	$5 \times 4 =$	$20 = 5 \times \ldots$	$20 \div 5 =$	$20 = 4 \times \ldots$	$20 \div 4 =$	$16 \div 4 =$
$5 \times 6 =$	$6 \times 5 =$	$30 = 5 \times \ldots$	$30 \div 5 =$	$30 = 6 \times \ldots$	$30 \div 6 =$	$36 \div 6 =$

go to page 3, A

A **Work across the page:**

7 + 2 =	3 + 5 =	6 + 4 =	7 + 4 =	4 + 7 =	8 + 5 =	6 + 7 =
3 − 3 =	4 − 0 =	5 − 3 =	7 − 4 =	7 − 3 =	9 − 6 =	8 − 3 =
2 × 4 =	4 × 0 =	3 × 4 =	5 × 3 =	4 × 4 =	2 × 6 =	5 × 5 =
9 ÷ 3 =	12 ÷ 2 =	15 ÷ 5 =	16 ÷ 4 =	18 ÷ 3 =	20 ÷ 5 =	24 ÷ 4 =
9 − 5 =	10 − 7 =	3 × 6 =	6 × 3 =	7 + 5 =	8 + 6 =	11 − 3 =
25 ÷ 5 =	24 ÷ 6 =	13 + 5 =	12 − 7 =	6 × 4 =	5 × 6 =	36 ÷ 6 =
4 × 6 =	9 − 6 =	30 ÷ 5 =	24 ÷ 4 =	10 − 7 =	7 + 6 =	6 × 6 =

go to B

B **Addition practice**

9 + 1 =	1 + 9 =	9 + 2 =	2 + 9 =	1 + 9 =	2 + 9 =	1 + 8 =
8 + 2 =	2 + 8 =	1 + 8 =	2 + 8 =	9 + 0 =	0 + 9 =	0 + 8 =
8 + 3 =	3 + 8 =	9 + 3 =	3 + 9 =	3 + 8 =	3 + 9 =	2 + 9 =
4 + 8 =	4 + 9 =	3 + 8 =	4 + 8 =	3 + 9 =	4 + 9 =	4 + 8 =
4 + 9 =	5 + 8 =	5 + 9 =	2 + 9 =	5 + 9 =	4 + 8 =	3 + 9 =
5 + 9 =	3 + 8 =	5 + 8 =	4 + 9 =	3 + 9 =	5 + 8 =	5 + 9 =
4 + 8 =	4 + 9 =	2 + 9 =	2 + 8 =	3 + 8 =	3 + 9 =	0 + 7 =
8 + 6 =	6 + 8 =	6 + 8 =	9 + 6 =	6 + 9 =	6 + 9 =	6 + 8 =
8 + 7 =	7 + 8 =	7 + 8 =	9 + 7 =	7 + 9 =	7 + 8 =	7 + 9 =
5 + 8 =	4 + 9 =	6 + 8 =	7 + 1 =	6 + 9 =	3 + 9 =	6 + 9 =
8 + 9 =	10 + 8 =	8 + 8 =	10 + 9 =	8 + 8 =	8 + 9 =	9 + 9 =
9 + 9 =	8 + 9 =	9 + 8 =	8 + 8 =	7 + 9 =	9 + 8 =	7 + 8 =
6 + 9 =	6 + 8 =	7 + 9 =	6 + 9 =	10 + 8 =	8 + 7 =	8 + 9 =

go to page 4, A

A

2 + 9 =	1 + 8 =	0 + 8 =	3 + 9 =	2 + 8 =	1 + 9 =	0 + 9 =

7 correct, go to C; 6 or less, go to B

B

8 + 1 =	1 + 8 =	1 + 8 =	8 + 2 =	2 + 8 =	2 + 8 =	0 + 8 =
9 + 0 =	0 + 9 =	9 + 1 =	1 + 9 =	9 + 2 =	2 + 9 =	2 + 9 =
1 + 9 =	2 + 8 =	1 + 8 =	2 + 9 =	9 + 3 =	3 + 9 =	3 + 9 =
2 + 9 =	1 + 8 =	3 + 9 =	2 + 8 =	3 + 9 =	0 + 8 =	2 + 9 =

go to page 6, A

C

3 + 8 =	4 + 8 =	5 + 9 =	6 + 8 =	4 + 9 =	5 + 8 =	3 + 9 =

7 correct, go to E; 6 or less, go to D

D

8 + 3 =	3 + 8 =	3 + 8 =	8 + 4 =	4 + 8 =	4 + 8 =	3 + 8 =
4 + 8 =	3 + 9 =	8 + 5 =	5 + 8 =	5 + 8 =	5 + 8 =	4 + 8 =
9 + 4 =	4 + 9 =	4 + 9 =	4 + 9 =	8 + 6 =	6 + 8 =	6 + 8 =
4 + 9 =	6 + 8 =	6 + 8 =	3 + 8 =	4 + 9 =	9 + 5 =	5 + 9 =
5 + 9 =	5 + 9 =	4 + 8 =	5 + 9 =	5 + 9 =	6 + 8 =	4 + 9 =

go to page 6, C

E

6 + 9 =	7 + 9 =	8 + 8 =	10 + 8 =	8 + 9 =	10 + 9 =	9 + 9 =

7 correct, go to page 5, A; 6 or less, go to F

F

9 + 6 =	6 + 9 =	6 + 9 =	9 + 7 =	7 + 9 =	7 + 9 =	6 + 9 =
7 + 9 =	8 + 8 =	8 + 8 =	6 + 9 =	10 + 8 =	10 + 8 =	9 + 9 =
9 + 9 =	10 + 8 =	9 + 9 =	8 + 8 =	8 + 8 =	6 + 9 =	6 + 9 =
10 + 9 =	10 + 9 =	10 + 8 =	10 + 9 =	6 + 9 =	8 + 8 =	7 + 9 =
9 + 9 =	10 + 8 =	6 + 9 =	7 + 9 =	8 + 8 =	10 + 9 =	8 + 9 =

go to page 6, E

A **Bigger numbers**

3 + 1 =	13 + 1 =	23 + 1 =	33 + 1 =	53 + 1 =	63 + 1 =	93 + 1 =
1 + 2 =	11 + 2 =	21 + 2 =	41 + 2 =	61 + 2 =	71 + 2 =	81 + 2 =
2 + 3 =	32 + 3 =	42 + 3 =	72 + 3 =	22 + 3 =	52 + 3 =	92 + 3 =
3 + 4 =	23 + 4 =	63 + 4 =	2 + 5 =	12 + 5 =	32 + 5 =	82 + 5 =
4 + 5 =	44 + 5 =	74 + 5 =	0 + 7 =	10 + 7 =	40 + 7 =	90 + 7 =
3 + 5 =	13 + 5 =	53 + 5 =	73 + 5 =	23 + 5 =	63 + 5 =	93 + 5 =
7 + 3 =	17 + 3 =	27 + 3 =	87 + 3 =	6 + 4 =	26 + 4 =	56 + 4 =
6 + 5 =	16 + 5 =	26 + 5 =	66 + 5 =	8 + 3 =	18 + 3 =	38 + 3 =

go to B

B **Practice:**

2 + 7 =	12 + 7 =	12 + 7 =	3 + 7 =	13 + 7 =	13 + 7 =	12 + 7 =
2 + 8 =	12 + 8 =	13 + 8 =	12 + 8 =	12 + 8 =	13 + 8 =	13 + 8 =
12 + 7 =	13 + 7 =	4 + 7 =	14 + 7 =	14 + 7 =	12 + 8 =	14 + 7 =
2 + 9 =	12 + 9 =	12 + 9 =	13 + 9 =	13 + 9 =	12 + 9 =	13 + 9 =
4 + 8 =	14 + 8 =	14 + 8 =	12 + 8 =	13 + 8 =	14 + 8 =	14 + 9 =
14 + 9 =	14 + 9 =	15 + 9 =	15 + 9 =	14 + 9 =	15 + 9 =	13 + 9 =
16 + 2 =	16 + 3 =	17 + 1 =	17 + 2 =	16 + 3 =	17 + 3 =	17 + 4 =
17 + 4 =	16 + 4 =	17 + 4 =	17 + 5 =	17 + 4 =	17 + 5 =	16 + 5 =
5 + 5 =	15 + 5 =	15 + 5 =	15 + 6 =	15 + 6 =	11 + 8 =	11 + 8 =
1 + 9 =	11 + 9 =	11 + 9 =	11 + 8 =	11 + 9 =	6 + 6 =	16 + 6 =
16 + 6 =	16 + 6 =	15 + 6 =	16 + 6 =	17 + 6 =	17 + 6 =	17 + 5 =
11 + 8 =	17 + 6 =	16 + 6 =	11 + 9 =	13 + 8 =	14 + 9 =	15 + 5 =
17 + 6 =	14 + 9 =	15 + 8 =	14 + 8 =	15 + 9 =	16 + 7 =	13 + 9 =

go to page 7, B

A

1 + 8 =	1 + 9 =	0 + 8 =	2 + 9 =	0 + 9 =	2 + 8 =	3 + 9 =

6 or 7 correct, go to page 4, C; 5 or less, go to B

B

8 + 1 =	1 + 8 =	1 + 8 =	1 + 9 =	1 + 9 =	8 + 2 =	2 + 8 =
2 + 8 =	2 + 8 =	2 + 8 =	8 + 0 =	0 + 8 =	0 + 9 =	0 + 8 =
9 + 2 =	2 + 9 =	2 + 9 =	2 + 9 =	2 + 8 =	1 + 9 =	1 + 8 =
9 + 3 =	3 + 9 =	3 + 9 =	3 + 9 =	1 + 9 =	0 + 8 =	0 + 9 =
2 + 9 =	1 + 8 =	0 + 9 =	2 + 9 =	2 + 8 =	3 + 9 =	2 + 9 =
3 + 9 =	2 + 8 =	1 + 9 =	0 + 8 =	2 + 9 =	1 + 8 =	3 + 9 =
2 + 8 =	3 + 9 =	2 + 9 =	3 + 9 =	2 + 8 =	0 + 9 =	2 + 8 =

go to page 4, C

C

2 + 8 =	4 + 8 =	3 + 9 =	5 + 8 =	3 + 8 =	5 + 9 =	6 + 8 =

6 or 7 correct, go to page 4, E; 5 or less, go to D

D

8 + 3 =	3 + 8 =	3 + 8 =	3 + 8 =	9 + 3 =	3 + 9 =	3 + 9 =
3 + 9 =	8 + 4 =	4 + 8 =	4 + 8 =	3 + 9 =	4 + 8 =	3 + 8 =
4 + 8 =	3 + 9 =	3 + 8 =	8 + 5 =	5 + 8 =	5 + 8 =	5 + 8 =
9 + 5 =	5 + 9 =	5 + 9 =	5 + 8 =	5 + 9 =	3 + 9 =	4 + 8 =
8 + 6 =	6 + 8 =	6 + 8 =	6 + 8 =	3 + 8 =	6 + 8 =	5 + 9 =
2 + 8 =	4 + 8 =	5 + 8 =	3 + 8 =	5 + 9 =	3 + 9 =	6 + 8 =
6 + 8 =	3 + 9 =	3 + 8 =	5 + 8 =	6 + 8 =	4 + 8 =	5 + 9 =
5 + 9 =	5 + 8 =	5 + 9 =	6 + 8 =	5 + 8 =	6 + 8 =	5 + 8 =

go to page 4, E

E

10 + 8 =	6 + 9 =	8 + 9 =	10 + 9 =	7 + 9 =	8 + 8 =	9 + 9 =

6 or 7 correct, go to page 5, A; 5 or less, go to page 7, A

A	10 + 8 =	10 + 8 =	10 + 9 =	10 + 9 =	9 + 6 =	6 + 9 =	6 + 9 =
	10 + 9 =	6 + 9 =	7 + 9 =	7 + 9 =	7 + 9 =	10 + 9 =	10 + 8 =
	8 + 8 =	8 + 8 =	8 + 8 =	10 + 8 =	8 + 8 =	8 + 9 =	8 + 9 =
	8 + 9 =	7 + 9 =	8 + 9 =	8 + 8 =	9 + 9 =	9 + 9 =	10 + 8 =
	9 + 9 =	8 + 8 =	10 + 9 =	7 + 9 =	10 + 8 =	8 + 9 =	9 + 9 =
	6 + 9 =	9 + 9 =	7 + 9 =	9 + 9 =	6 + 9 =	9 + 9 =	8 + 9 =

go to page 5, A

B	12 + 7 =	13 + 7 =	15 + 3 =	16 + 4 =	12 + 8 =	13 + 9 =	15 + 5 =

7 correct, go to D; 6 or less, go to C

C	2 + 7 =	12 + 7 =	12 + 7 =	13 + 7 =	13 + 7 =	12 + 7 =	13 + 7 =
	5 + 5 =	15 + 5 =	15 + 5 =	2 + 8 =	12 + 8 =	12 + 8 =	15 + 5 =
	13 + 7 =	12 + 8 =	15 + 3 =	15 + 5 =	6 + 4 =	16 + 4 =	16 + 4 =
	12 + 7 =	3 + 9 =	13 + 9 =	13 + 9 =	12 + 7 =	13 + 9 =	15 + 5 =
	13 + 9 =	15 + 5 =	12 + 7 =	16 + 4 =	13 + 9 =	13 + 7 =	12 + 8 =

go to page 8, A

D	16 + 3 =	16 + 5 =	12 + 9 =	13 + 8 =	14 + 9 =	17 + 3 =	17 + 5 =

7 correct, go to page 8, E; 6 or less, go to E

E	6 + 3 =	16 + 3 =	6 + 5 =	16 + 5 =	16 + 3 =	16 + 5 =	17 + 3 =
	17 + 3 =	16 + 5 =	2 + 9 =	12 + 9 =	12 + 9 =	16 + 3 =	12 + 9 =
	3 + 8 =	13 + 8 =	13 + 8 =	7 + 5 =	17 + 5 =	17 + 5 =	13 + 8 =
	17 + 5 =	4 + 9 =	14 + 9 =	17 + 5 =	14 + 9 =	14 + 9 =	14 + 9 =
	12 + 9 =	14 + 9 =	17 + 3 =	16 + 5 =	12 + 9 =	13 + 8 =	17 + 5 =

go to page 8, C

A	15 + 3 =	12 + 8 =	16 + 4 =	12 + 7 =	15 + 5 =	13 + 7 =	13 + 9 =

6 or 7 correct, go to page 7, D; 5 or less, go to B

B	5 + 3 =	15 + 3 =	2 + 7 =	12 + 7 =	15 + 3 =	12 + 7 =	15 + 5 =
	15 + 5 =	12 + 7 =	15 + 3 =	6 + 4 =	16 + 4 =	2 + 8 =	12 + 8 =
	16 + 4 =	12 + 8 =	16 + 6 =	12 + 7 =	12 + 8 =	3 + 7 =	13 + 7 =
	13 + 7 =	13 + 9 =	13 + 9 =	13 + 7 =	13 + 9 =	16 + 4 =	15 + 5 =
	12 + 7 =	16 + 4 =	15 + 5 =	13 + 9 =	12 + 8 =	13 + 7 =	13 + 9 =
	12 + 8 =	13 + 9 =	12 + 7 =	16 + 4 =	13 + 7 =	15 + 5 =	12 + 8 =
	13 + 7 =	12 + 8 =	16 + 4 =	13 + 9 =	15 + 5 =	13 + 9 =	12 + 7 =

go to page 7, D

C	16 + 3 =	17 + 3 =	12 + 9 =	16 + 5 =	13 + 8 =	14 + 9 =	17 + 5 =

6 or 7 correct, go to E; 5 or less, go to D

D	7 + 3 =	17 + 3 =	17 + 3 =	16 + 3 =	16 + 3 =	2 + 9 =	12 + 9 =
	16 + 3 =	12 + 9 =	12 + 9 =	8 + 3 =	3 + 8 =	13 + 8 =	13 + 8 =
	12 + 8 =	13 + 8 =	17 + 3 =	12 + 9 =	6 + 5 =	16 + 5 =	16 + 5 =
	7 + 5 =	17 + 5 =	16 + 5 =	17 + 5 =	17 + 5 =	13 + 8 =	12 + 9 =
	9 + 4 =	4 + 9 =	14 + 9 =	14 + 9 =	12 + 9 =	14 + 9 =	17 + 5 =
	17 + 5 =	12 + 9 =	17 + 5 =	13 + 8 =	14 + 9 =	17 + 3 =	16 + 5 =
	14 + 9 =	13 + 8 =	17 + 3 =	16 + 5 =	12 + 9 =	17 + 5 =	14 + 9 =

go to E

E	17 + 2 =	14 + 7 =	15 + 6 =	17 + 4 =	14 + 8 =	16 + 6 =	17 + 6 =

7 correct, go to page 9, B; 6 or less, go to page 9, A

A

17 + 2 =	17 + 2 =	7 + 4 =	4 + 7 =	14 + 7 =	14 + 7 =	6 + 6 =
16 + 6 =	16 + 6 =	14 + 7 =	16 + 6 =	5 + 6 =	15 + 6 =	15 + 6 =
14 + 7 =	17 + 4 =	17 + 4 =	14 + 7 =	16 + 6 =	17 + 6 =	17 + 6 =
8 + 4 =	4 + 8 =	14 + 8 =	14 + 8 =	14 + 7 =	14 + 8 =	15 + 6 =
17 + 4 =	14 + 7 =	15 + 6 =	16 + 6 =	17 + 6 =	17 + 6 =	14 + 8 =
14 + 8 =	17 + 4 =	17 + 6 =	15 + 6 =	14 + 7 =	16 + 6 =	17 + 4 =
7 + 6 =	17 + 6 =	4 + 8 =	14 + 8 =	17 + 6 =	14 + 8 =	17 + 2 =
17 + 4 =	16 + 6 =	14 + 7 =	15 + 6 =	16 + 6 =	17 + 4 =	17 + 6 =

go to page 10, A

B **Subtraction practice:**

10 − 7 =	9 − 6 =	12 − 5 =	11 − 7 =	10 − 10 =	11 − 10 =	12 − 10 =
13 − 4 =	13 − 4 =	14 − 5 =	14 − 5 =	13 − 10 =	13 − 9 =	13 − 9 =
15 − 6 =	15 − 6 =	15 − 10 =	13 − 5 =	13 − 5 =	15 − 9 =	14 − 9 =
15 − 9 =	14 − 9 =	14 − 10 =	14 − 8 =	14 − 8 =	13 − 8 =	13 − 8 =
13 − 6 =	13 − 7 =	13 − 6 =	13 − 7 =	16 − 10 =	18 − 10 =	13 − 6 =
14 − 6 =	14 − 8 =	14 − 6 =	14 − 6 =	14 − 7 =	14 − 7 =	15 − 7 =
15 − 8 =	15 − 7 =	15 − 8 =	16 − 7 =	16 − 9 =	16 − 9 =	16 − 7 =
16 − 8 =	16 − 8 =	16 − 10 =	19 − 10 =	17 − 8 =	17 − 9 =	17 − 9 =
17 − 8 =	18 − 9 =	18 − 9 =	12 − 8 =	14 − 8 =	14 − 6 =	11 − 6 =
13 − 4 =	13 − 9 =	14 − 7 =	15 − 8 =	15 − 7 =	16 − 7 =	16 − 9 =
9 − 5 =	14 − 5 =	14 − 9 =	13 − 5 =	13 − 8 =	11 − 5 =	16 − 8 =
15 − 9 =	15 − 6 =	17 − 8 =	17 − 9 =	19 − 10 =	18 − 9 =	15 − 8 =
17 − 9 =	15 − 8 =	14 − 6 =	15 − 7 =	16 − 9 =	17 − 10 =	19 − 10 =

go to page 10, C

A

15 + 6 =	16 + 6 =	14 + 7 =	17 + 4 =	14 + 8 =	17 + 2 =	17 + 6 =

6 or 7 correct, go to page 9, B; 5 or less, go to B

B

5 + 6 =	15 + 6 =	15 + 6 =	16 + 6 =	15 + 6 =	16 + 6 =	16 + 6 =
7 + 4 =	4 + 7 =	14 + 7 =	17 + 4 =	17 + 4 =	17 + 2 =	14 + 7 =
16 + 6 =	15 + 6 =	17 + 4 =	8 + 4 =	4 + 8 =	14 + 8 =	14 + 8 =
14 + 7 =	14 + 8 =	15 + 6 =	7 + 6 =	17 + 6 =	17 + 6 =	17 + 6 =
15 + 6 =	15 + 6 =	14 + 7 =	14 + 8 =	14 + 7 =	14 + 8 =	17 + 4 =
17 + 4 =	16 + 6 =	16 + 6 =	17 + 2 =	17 + 6 =	17 + 4 =	17 + 6 =

go to page 9, B

C

8 − 5 =	10 − 10 =	13 − 4 =	13 − 9 =	11 − 10 =	14 − 9 =	15 − 6 =

7 correct, go to E; 6 or less, go to D

D

1 − 1 =	10 − 10 =	11 − 10 =	13 − 4 =	13 − 4 =	13 − 9 =	14 − 9 =
13 − 9 =	14 − 9 =	13 − 9 =	13 − 9 =	14 − 9 =	13 − 4 =	11 − 10 =
15 − 6 =	15 − 6 =	10 − 10 =	14 − 9 =	13 − 4 =	13 − 9 =	13 − 9 =
8 − 5 =	13 − 4 =	15 − 6 =	13 − 9 =	10 − 10 =	14 − 9 =	15 − 6 =

go to page 12, A

E

11 − 4 =	13 − 5 =	13 − 8 =	13 − 10 =	14 − 5 =	14 − 7 =	16 − 8 =

7 correct, go to page 11, A; 6 or less, go to F

F

13 − 8 =	13 − 5 =	13 − 5 =	13 − 8 =	11 − 4 =	14 − 5 =	14 − 5 =
14 − 7 =	14 − 7 =	14 − 7 =	13 − 5 =	13 − 10 =	13 − 8 =	14 − 7 =
14 − 5 =	14 − 5 =	16 − 8 =	14 − 7 =	16 − 8 =	16 − 8 =	16 − 8 =
13 − 5 =	13 − 8 =	14 − 7 =	16 − 8 =	14 − 5 =	13 − 10 =	14 − 7 =

go to page 12, C

A	12 − 10 =	13 − 7 =	14 − 6 =	13 − 6 =	14 − 10 =	14 − 8 =	15 − 9 =

7 correct, go to C; 6 or less, go to B

B	12 − 10 =	14 − 10 =	14 − 8 =	14 − 8 =	14 − 6 =	14 − 6 =	14 − 8 =
	13 − 6 =	13 − 7 =	13 − 6 =	13 − 7 =	13 − 7 =	13 − 6 =	14 − 6 =
	15 − 9 =	15 − 9 =	14 − 8 =	15 − 9 =	14 − 10 =	15 − 9 =	14 − 8 =
	13 − 6 =	14 − 8 =	15 − 9 =	12 − 10 =	13 − 6 =	14 − 6 =	13 − 7 =

go to page 12, E

C	15 − 7 =	15 − 8 =	16 − 10 =	15 − 10 =	16 − 7 =	14 − 7 =	16 − 9 =

7 correct, go to E; 6 or less, go to D

D	15 − 10 =	16 − 10 =	15 − 7 =	15 − 8 =	15 − 7 =	15 − 8 =	15 − 8 =
	14 − 7 =	16 − 9 =	16 − 9 =	16 − 7 =	16 − 9 =	16 − 7 =	16 − 7 =
	15 − 7 =	15 − 8 =	15 − 7 =	14 − 7 =	14 − 7 =	15 − 10 =	16 − 10 =
	16 − 7 =	16 − 9 =	15 − 8 =	16 − 9 =	15 − 7 =	14 − 7 =	16 − 9 =

go to page 13, A

E	17 − 10 =	18 − 9 =	17 − 8 =	18 − 10 =	13 − 8 =	17 − 9 =	19 − 10 =

7 correct, go to page 13, E; 6 or less, go to F

F	17 − 10 =	18 − 10 =	19 − 10 =	17 − 10 =	18 − 9 =	18 − 10 =	18 − 9 =
	18 − 9 =	17 − 9 =	17 − 8 =	17 − 8 =	17 − 9 =	13 − 5 =	13 − 8 =
	17 − 9 =	17 − 8 =	18 − 9 =	18 − 9 =	17 − 10 =	17 − 8 =	17 − 8 =
	18 − 9 =	17 − 9 =	13 − 8 =	15 − 7 =	18 − 9 =	18 − 9 =	19 − 10 =
	19 − 10 =	17 − 8 =	18 − 9 =	17 − 8 =	17 − 9 =	18 − 10 =	18 − 9 =

go to page 13, C

A	11 − 10 =	10 − 10 =	8 − 5 =	13 − 9 =	13 − 4 =	14 − 9 =	15 − 6 =

6 or 7 correct, go to page 10, E; 5 or less, go to B

B	2 − 2 =	10 − 10 =	11 − 10 =	13 − 4 =	13 − 4 =	13 − 9 =	13 − 9 =
	14 − 9 =	14 − 9 =	8 − 5 =	14 − 9 =	15 − 6 =	15 − 6 =	15 − 6 =
	13 − 4 =	13 − 9 =	13 − 9 =	13 − 4 =	14 − 9 =	14 − 9 =	13 − 9 =
	15 − 6 =	15 − 6 =	10 − 10 =	15 − 6 =	13 − 4 =	13 − 9 =	14 − 9 =
	14 − 9 =	11 − 10 =	13 − 9 =	14 − 9 =	15 − 6 =	13 − 4 =	15 − 6 =

go to page 10, E

C	13 − 10 =	11 − 4 =	14 − 7 =	13 − 5 =	13 − 8 =	14 − 5 =	16 − 8 =

6 or 7 correct go to page 11, A; 5 or less, go to D

D	13 − 10 =	13 − 10 =	14 − 7 =	14 − 7 =	16 − 8 =	11 − 4 =	16 − 8 =
	16 − 8 =	13 − 5 =	13 − 8 =	13 − 8 =	13 − 5 =	14 − 7 =	13 − 5 =
	13 − 8 =	13 − 10 =	16 − 8 =	16 − 8 =	14 − 7 =	13 − 8 =	14 − 7 =
	13 − 5 =	14 − 5 =	14 − 5 =	11 − 4 =	14 − 5 =	14 − 7 =	16 − 8 =
	16 − 8 =	14 − 7 =	13 − 5 =	14 − 5 =	13 − 8 =	13 − 10 =	14 − 5 =

go to page 11, A

E	14 − 10 =	13 − 6 =	13 − 7 =	14 − 6 =	12 − 10 =	15 − 9 =	14 − 8 =

6 or 7 correct, go to page 11, C; 5 or less, go to F

F	13 − 6 =	13 − 6 =	13 − 7 =	13 − 6 =	13 − 7 =	13 − 7 =	12 − 10 =
	15 − 9 =	15 − 9 =	14 − 10 =	15 − 9 =	14 − 10 =	13 − 6 =	13 − 7 =
	14 − 8 =	14 − 6 =	14 − 8 =	14 − 8 =	14 − 6 =	14 − 6 =	14 − 8 =
	13 − 7 =	15 − 9 =	13 − 6 =	15 − 9 =	14 − 6 =	14 − 8 =	14 − 10 =

go to page 11, C

A

15 − 10 =	15 − 8 =	16 − 9 =	16 − 8 =	15 − 7 =	16 − 10 =	16 − 7 =

6 or 7 correct, go to page 11, E; 5 or less, go to B

B

15 − 7 =	15 − 8 =	17 − 7 =	15 − 8 =	16 − 8 =	15 − 8 =	15 − 7 =
16 − 9 =	16 − 7 =	16 − 7 =	16 − 9 =	16 − 7 =	16 − 9 =	15 − 10 =
15 − 8 =	15 − 7 =	16 − 8 =	16 − 7 =	16 − 9 =	16 − 10 =	15 − 8 =
15 − 10 =	16 − 9 =	15 − 8 =	16 − 10 =	16 − 8 =	15 − 7 =	16 − 9 =

go to page 11, E

C

17 − 8 =	17 − 10 =	17 − 9 =	18 − 10 =	13 − 8 =	19 − 10 =	18 − 9 =

6 or 7 correct, go to E; 5 or less, go to D

D

17 − 10 =	17 − 9 =	17 − 8 =	17 − 8 =	17 − 9 =	17 − 9 =	17 − 10 =
18 − 10 =	19 − 10 =	18 − 10 =	18 − 9 =	18 − 9 =	19 − 10 =	18 − 9 =
13 − 8 =	13 − 8 =	17 − 8 =	17 − 9 =	17 − 8 =	17 − 9 =	19 − 10 =
18 − 9 =	17 − 8 =	18 − 9 =	17 − 10 =	17 − 9 =	17 − 8 =	18 − 9 =
17 − 9 =	17 − 8 =	18 − 10 =	17 − 8 =	18 − 9 =	19 − 10 =	17 − 9 =

go to E

E **Revision:**

7 + 4 =	4 + 7 =	6 + 5 =	5 + 6 =	7 + 7 =	8 + 3 =	3 + 8 =
9 + 5 =	10 + 5 =	5 + 9 =	7 + 6 =	6 + 7 =	6 + 8 =	8 + 6 =
10 + 7 =	9 + 6 =	6 + 9 =	7 + 9 =	9 + 8 =	8 + 9 =	11 + 2 =
12 + 1 =	11 + 3 =	14 + 2 =	14 + 5 =	13 + 2 =	13 + 4 =	8 + 8 =
2 + 5 =	12 + 5 =	5 + 4 =	15 + 4 =	14 + 7 =	15 + 6 =	11 + 7 =
6 + 4 =	16 + 4 =	16 + 6 =	17 + 5 =	15 + 5 =	13 + 6 =	17 + 6 =

go to page 14, A

A **Speed check**

2 + 4 =	5 + 3 =	6 + 0 =	0 + 7 =	2 + 7 =	3 + 6 =	4 + 5 =
3 + 4 =	2 + 9 =	5 − 2 =	5 − 3 =	6 − 0 =	6 − 6 =	7 − 4 =
8 − 3 =	9 − 6 =	5 + 6 =	8 + 4 =	4 + 7 =	10 − 7 =	9 − 5 =
10 − 3 =	12 − 7 =	4 + 8 =	9 + 3 =	8 − 5 =	9 − 7 =	4 + 9 =
11 − 9 =	5 + 7 =	6 + 7 =	13 − 4 =	14 − 9 =	11 + 5 =	15 − 6 =
10 + 7 =	13 − 5 =	10 + 9 =	9 − 9 =	11 + 7 =	13 − 6 =	12 + 5 =
14 − 5 =	11 + 9 =	16 − 9 =	17 − 6 =	13 − 7 =	12 + 3 =	13 + 4 =
13 + 6 =	12 − 8 =	12 + 6 =	14 − 6 =	11 − 8 =	14 + 5 =	12 − 9 =
15 + 3 =	9 − 0 =	13 − 8 =	15 − 8 =	14 + 6 =	12 − 10 =	11 + 8 =
14 + 7 =	16 − 7 =	15 + 6 =	13 + 8 =	14 − 7 =	13 − 9 =	14 + 9 =
17 − 9 =	14 − 8 =	16 + 4 =	18 − 10 =	17 + 3 =	16 + 6 =	17 − 10 =
15 + 5 =	16 − 9 =	17 − 8 =	17 + 5 =	18 − 9 =	19 − 10 =	17 + 6 =

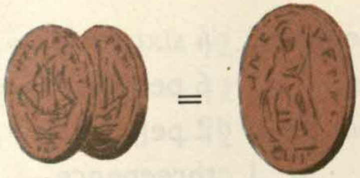
go to B

B **Bigger numbers**

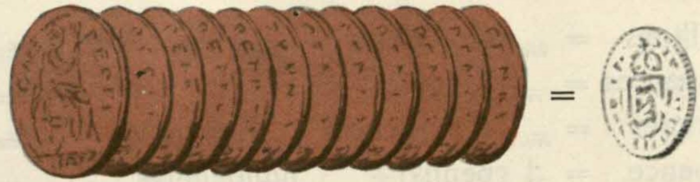
6 + 3 =	16 + 3 =	26 + 3 =	46 + 3 =	3 + 5 =	13 + 5 =	53 + 5 =
9 + 2 =	19 + 2 =	29 + 2 =	39 + 2 =	49 + 2 =	69 + 2 =	89 + 2 =
8 + 2 =	18 + 2 =	28 + 2 =	8 + 3 =	18 + 3 =	28 + 3 =	48 + 3 =
9 + 4 =	19 + 4 =	49 + 4 =	9 + 7 =	19 + 7 =	29 + 7 =	59 + 7 =
7 + 3 =	17 + 3 =	57 + 3 =	7 + 4 =	17 + 4 =	37 + 4 =	67 + 4 =
7 + 5 =	27 + 5 =	77 + 5 =	8 + 5 =	18 + 5 =	48 + 5 =	88 + 5 =
6 + 4 =	16 + 4 =	36 + 4 =	6 + 5 =	16 + 5 =	36 + 5 =	56 + 5 =
16 + 6 =	26 + 6 =	46 + 6 =	76 + 6 =	3 + 7 =	23 + 7 =	73 + 7 =
14 + 7 =	34 + 7 =	84 + 7 =	13 + 9 =	43 + 9 =	15 + 8 =	65 + 8 =

go to page 14, A

A **Learn:**



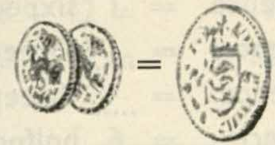
2 halfpennies = 1 penny
2 × ½d. = 1d.



12 pennies = 1 shilling
12 × 1d. = 1s. or 1/-



4 threepences = 1 shilling
4 × 3d. = 1s. or 1/-



2 sixpences = 1 shilling
2 × 6d. = 1s. or 1/-

go to B

B **Complete:**

1 shilling = ... pennies
1 sixpence = ... threepences
1 penny = ... halfpennies
1 threepence = ... halfpennies
3 threepences = ... pennies
3 sixpences = ... threepences
1 shilling = 1 sixpence and ..... threepences
five pence = 1 sixpence − ....
eight pence = 3 threepences − ....

1 shilling = ... sixpences
2 sixpences = ... threepences
2 pennies = ... halfpennies
1 sixpence = ... halfpennies
1 shilling = ... threepences
12 pennies = ... sixpences

1 shilling = ... threepences
2 shillings = ... sixpences
3 pennies = ... halfpennies
6 pennies = ... threepences
4 threepences = ... sixpences
12 pennies = ... threepences
1 sixpence = 3 pennies and ..... threepence
sevenpence = 1 sixpence + 2 ....
ten pence = 1 sixpence + ...

go to page 16, A

A **Complete:**

2 shillings = ... sixpences	2 sixpences = ... threepences	4 sixpences = ... threepences
2 sixpences = ... pennies	3 threepences = ... pennies	6 pennies = ... threepences
9 pennies = ... threepences	12 pennies = ... threepences	12 pennies = ... sixpences

twopence = 1 penny + ... halfpennies	twopence = 1 threepence − ..... penny
threepence = 1 penny + ... halfpennies	threepence = 1 sixpence − ..... pennies
fourpence = 2 pennies + ... halfpennies	fourpence = ... threepence + ... penny
fourpence = 1 sixpence − ..... pennies	fourpence = ... threepences − ..... pennies
fivepence = ... threepence + ... pennies	fivepence = 1 threepence + ... halfpennies
fivepence = ... threepences − ..... penny	fivepence = 1 sixpence − ..... halfpennies
sixpence = 6 halfpennies + ... pennies	sevenpence = ... threepences + ... penny
eightpence = 3 threepences − ..... penny	ninepence = ... shilling − ..... threepence
tenpence = 2 sixpences − ..... pennies	elevenpence = ... sixpences − ..... penny

go to B

B

3d. + 1d. =	3d. + 3d. =	2d. + 5d. =	4d. + 3d. =	5d. + 3d. =
4d. + 5d. =	3d. + 4d. =	3d. + 6d. =	2d. + 7d. =	4d. + 4d. =
5d. + 6d. =	2d. + 9d. =	4d. + 6d. =	6d. + 4d. =	3d. + 8d. =
6d. − 2d. =	5d. − 3d. =	7d. − 4d. =	7d. − 3d. =	10d. − 2d. =
5d. − 5d. =	7d. − 5d. =	8d. − 5d. =	11d. − 4d. =	9d. − 7d. =
9d. − 4d. =	12d. − 7d. =	9d. − 6d. =	10d. − 6d. =	11d. − 8d. =
3d. + 7d. =	4d. + 7d. =	11d. − 1d. =	10d. − 7d. =	12d. − 9d. =
2d. + 9d. =	3d. + 8d. =	9d. − 3d. =	9d. − 5d. =	11d. − 7d. =
12d. − 5d. =	11d. − 7d. =	11d. − 5d. =	12d. − 9d. =	12d. − 11d. =

go to page 17, A

A **Practice:**

12 − 0 =	12 − 12 =	13 − 12 =	14 − 12 =	12 − 12 =	15 − 12 =
13 − 12 =	14 − 12 =	15 − 12 =	16 − 12 =	17 − 12 =	18 − 12 =
14 − 12 =	15 − 12 =	15 − 12 =	17 − 12 =	14 − 12 =	13 − 12 =
18 − 12 =	17 − 12 =	18 − 12 =	16 − 12 =	14 − 12 =	16 − 12 =
17 − 12 =	19 − 12 =	19 − 12 =	15 − 12 =	15 − 12 =	19 − 12 =
21 − 12 =	20 − 12 =	18 − 12 =	20 − 12 =	21 − 12 =	23 − 12 =
22 − 12 =	23 − 12 =	22 − 12 =	21 − 12 =	23 − 12 =	19 − 12 =
21 − 12 =	18 − 12 =	17 − 12 =	23 − 12 =	20 − 12 =	22 − 12 =

go to B

B **Practice: Change pence to shillings and pence**

13d. = ... s. ..... d.	14d. = ... s. ..... d.	15d. = ... s. ..... d.	13d. = ... s. ..... d.	16d. = ... s. ..... d.
14d. = ... s. ..... d.	16d. = ... s. ..... d.	17d. = ... s. ..... d.	16d. = ... s. ..... d.	12d. = ... s. ..... d.
15d. = ... s. ..... d.	13d. = ... s. ..... d.	18d. = ... s. ..... d.	15d. = ... s. ..... d.	18d. = ... s. ..... d.
19d. = ... s. ..... d.	18d. = ... s. ..... d.	19d. = ... s. ..... d.	16d. = ... s. ..... d.	20d. = ... s. ..... d.
20d. = ... s. ..... d.	21d. = ... s. ..... d.	20d. = ... s. ..... d.	21d. = ... s. ..... d.	22d. = ... s. ..... d.
23d. = ... s. ..... d.	24d. = ... s. ..... d.	23d. = ... s. ..... d.	24d. = ... s. ..... d.	21d. = ... s. ..... d.
13d. = ... s. ..... d.	14d. = ... s. ..... d.	13d. = ... s. ..... d.	14d. = ... s. ..... d.	16d. = ... s. ..... d.
13d. = ... s. ..... d.	12d. = ... s. ..... d.	15d. = ... s. ..... d.	16d. = ... s. ..... d.	15d. = ... s. ..... d.
17d. = ... s. ..... d.	12d. = ... s. ..... d.	18d. = ... s. ..... d.	18d. = ... s. ..... d.	17d. = ... s. ..... d.
20d. = ... s. ..... d.	19d. = ... s. ..... d.	20d. = ... s. ..... d.	19d. = ... s. ..... d.	14d. = ... s. ..... d.
21d. = ... s. ..... d.	21d. = ... s. ..... d.	23d. = ... s. ..... d.	22d. = ... s. ..... d.	23d. = ... s. ..... d.
22d. = ... s. ..... d.	24d. = ... s. ..... d.	21d. = ... s. ..... d.	24d. = ... s. ..... d.	25d. = ... s. ..... d.

go to page 18

A

12d. = ...s. .....d. 14d. = ...s. .....d. 17d. = ...s. .....d. 13d. = ...s. .....d. 16d. = ...s. .....d.
15d. = ...s. .....d. 19d. = ...s. .....d. 20d. = ...s. .....d. 22d. = ...s. .....d. 18d. = ...s. .....d.

10 correct, go to C; 9 or less, go to B

B

12d. = ...s. .....d. 13d. = ...s. .....d. 12d. = ...s. .....d. 13d. = ...s. .....d. 13d. = ...s. .....d.
14d. = ...s. .....d. 16d. = ...s. .....d. 15d. = ...s. .....d. 16d. = ...s. .....d. 14d. = ...s. .....d.
17d. = ...s. .....d. 15d. = ...s. .....d. 17d. = ...s. .....d. 20d. = ...s. .....d. 19d. = ...s. .....d.
19d. = ...s. .....d. 20d. = ...s. .....d. 22d. = ...s. .....d. 22d. = ...s. .....d. 20d. = ...s. .....d.
18d. = ...s. .....d. 19d. = ...s. .....d. 20d. = ...s. .....d. 18d. = ...s. .....d. 18d. = ...s. .....d.
22d. = ...s. .....d. 17d. = ...s. .....d. 16d. = ...s. .....d. 19d. = ...s. .....d. 20d. = ...s. .....d.
18d. = ...s. .....d. 20d. = ...s. .....d. 19d. = ...s. .....d. 17d. = ...s. .....d. 22d. = ...s. .....d.

go to C

C

17d. = ...s. .....d. 21d. = ...s. .....d. 24d. = ...s. .....d. 23d. = ...s. .....d. 25d. = ...s. .....d.

5 correct, go to page 19, A; 4 or less, go to D

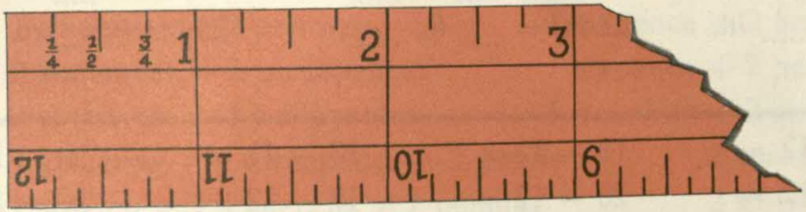
D

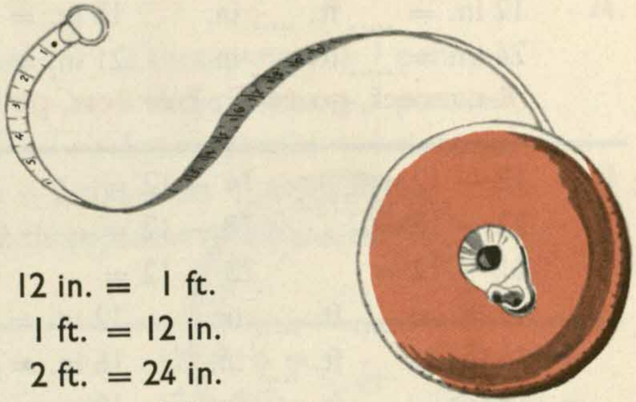
12 − 12 = 14 − 12 = 17 − 12 = 16 − 12 = 18 − 12 = 17 − 12 =
13 − 12 = 15 − 12 = 19 − 12 = 19 − 12 = 20 − 12 = 16 − 12 =
20 − 12 = 21 − 12 = 22 − 12 = 21 − 12 = 22 − 12 = 23 − 12 =
24 − 24 = 24 − 24 = 25 − 24 = 23 − 12 = 25 − 24 = 22 − 12 =

16d. = ...s. .....d. 17d. = ...s. .....d. 17d. = ...s. .....d. 19d. = ...s. .....d. 20d. = ...s. .....d.
18d. = ...s. .....d. 19d. = ...s. .....d. 18d. = ...s. .....d. 20d. = ...s. .....d. 21d. = ...s. .....d.
21d. = ...s. .....d. 23d. = ...s. .....d. 23d. = ...s. .....d. 22d. = ...s. .....d. 22d. = ...s. .....d.
24d. = ...s. .....d. 24d. = ...s. .....d. 25d. = ...s. .....d. 23d. = ...s. .....d. 25d. = ...s. .....d.
25d. = ...s. .....d. 23d. = ...s. .....d. 19d. = ...s. .....d. 22d. = ...s. .....d. 24d. = ...s. .....d.

go to page 19, A

A





12 inches = 1 foot 1 foot = 12 inches 2 feet = 24 inches 24 inches = 2 feet	or in short form	12 in. = 1 ft. 1 ft. = 12 in. 2 ft. = 24 in. 24 in. = 2 ft.

go to B

B **Practice: Change inches to feet and inches**

12 inches = ... foot	24 inches = ... feet	1 foot = ... inches	2 feet = ... inches
13 inches = ... foot ..... inches	15 inches = ... foot ..... inches		20 inches = ... foot ..... inches
14 inches = ... foot ..... inches	17 inches = ... foot ..... inches		22 inches = ... foot ...... inches
16 inches = ... foot ..... inches	12 inches = ... foot ..... inches		19 inches = ... foot ..... inches
12 in. = ... ft. ..... in.	15 in. = ... ft. ..... in.	17 in. = ... ft. ..... in.	14 in. = ... ft. ..... in.
13 in. = ... ft. ..... in.	16 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.	15 in. = ... ft. ..... in.
14 in. = ... ft. ..... in.	18 in. = ... ft. ..... in.	19 in. = ... ft. ..... in.	21 in. = ... ft. ..... in.
17 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.	22 in. = ... ft. ...... in.	24 in. = ... ft. ..... in.
21 in. = ... ft. ..... in.	21 in. = ... ft. ..... in.	23 in. = ... ft. ...... in.	20 in. = ... ft. ..... in.
19 in. = ... ft. ..... in.	23 in. = ... ft. ...... in.	18 in. = ... ft. ..... in.	22 in. = ... ft. ...... in.
24 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.	23 in. = ... ft. ...... in.	25 in. = ... ft. ..... in.
22 in. = ... ft. ...... in.	24 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.	23 in. = ... ft. ...... in.

go to page 20, A

A

12 in. = ... ft. ..... in.	15 in. = ... ft. ..... in.	16 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.
24 in. = ... ft. ..... in.	21 in. = ... ft. ..... in.	23 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.

8 correct, go to C; 7 or less, go to B

B

12 − 12 =	14 − 12 =	16 − 12 =	18 − 12 =	17 − 12 =	20 − 12 =
22 − 12 =	18 − 12 =	21 − 12 =	20 − 12 =	19 − 12 =	21 − 12 =
21 − 12 =	23 − 12 =	20 − 12 =	24 − 24 =	23 − 12 =	25 − 24 =

13 in. = ... ft. ..... in.	12 in. = ... ft. ..... in.	16 in. = ... ft. ..... in.	15 in. = ... ft. ..... in.
14 in. = ... ft. ..... in.	16 in. = ... ft. ..... in.	17 in. = ... ft. ..... in.	19 in. = ... ft. ..... in.
18 in. = ... ft. ..... in.	18 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.
21 in. = ... ft. ..... in.	17 in. = ... ft. ..... in.	19 in. = ... ft. ..... in.	21 in. = ... ft. ..... in.
22 in. = ... ft. ..... in.	20 in. = ... ft. ..... in.	23 in. = ... ft. ..... in.	22 in. = ... ft. ..... in.
24 in. = ... ft. ..... in.	23 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.	26 in. = ... ft. ..... in.
21 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.	22 in. = ... ft. ..... in.	25 in. = ... ft. ..... in.

go to C

C

10d. + 3d. = ...s. .....d.	7d. + 6d. = ...s. .....d.	6d. + 7d. = ...s. .....d.	8d. + 4d. = ...s. .....d.
6d. + 6d. = ...s. .....d.	5d. + 8d. = ...s. .....d.	4d. + 8d. = ...s. .....d.	5d. + 7d. = ...s. .....d.
7d. + 8d. = ...s. .....d.	6d. + 9d. = ...s. .....d.	10d. + 7d. = ...s. .....d.	8d. + 9d. = ...s. .....d.
8d. + 6d. = ...s. .....d.	7d. + 9d. = ...s. .....d.	11d. + 6d. = ...s. .....d.	9d. + 9d. = ...s. .....d.

8 in. + 5 in. = ... ft. ..... in.	10 in. + 4 in. = ... ft. ..... in.	6 in. + 7 in. = ... ft. ..... in.
7 in. + 5 in. = ... ft. ..... in.	4 in. + 8 in. = ... ft. ..... in.	6 in. + 8 in. = ... ft. ..... in.
4 in. + 9 in. = ... ft. ..... in.	9 in. + 6 in. = ... ft. ..... in.	8 in. + 7 in. = ... ft. ..... in.
10 in. + 8 in. = ... ft. ..... in.	11 in. + 9 in. = ... ft. ..... in.	11 in. + 10 in. = ... ft. ..... in.
9 in. + 11 in. = ... ft. ..... in.	9 in. + 10 in. = ... ft. ..... in.	11 in. + 11 in. = ... ft. ..... in.

go to page 21, A

A **Give the total value of:**

1 sixpence + 2 pennies	1 sixpence + 2 halfpennies	2 threepences + 1 penny
2 sixpences + 2 threepences	1 sixpence + 7 pennies	3 threepences + 5 pennies
3 sixpences + 6 halfpennies	9 pennies + 2 sixpences	4 threepences + 1 sixpence

1 sixpence + 1 threepence + 1 penny — 2 threepences + 2 sixpences + 4 pennies

1 shilling + 2 sixpences + 2 pennies — 2 shillings + 2 threepences + 5 pennies

go to B

B

12 + 1 =	12 + 0 =	12 + 3 =	12 + 2 =	12 + 6 =	12 + 5 =
12 + 4 =	12 + 8 =	12 + 7 =	12 + 9 =	12 + 10 =	12 + 9 =
24 + 0 =	24 + 2 =	12 + 11 =	24 + 3 =	24 + 0 =	12 + 10 =

go to C

C **Practice: Change shillings and pence to pence:**

1s. 0d. = ... d.	1s. 1d. = ... d.	1s. 4d. = ... d.	1s. 2d. = ... d.	1s. 5d. = ... d.
1s. 3d. = ... d.	1s. 6d. = ... d.	1s. 8d. = ... d.	1s. 8d. = ... d.	1s. 4d. = ... d.
1s. 1d. = ... d.	1s. 0d. = ... d.	1s. 5d. = ... d.	1s. 3d. = ... d.	1s. 8d. = ... d.
1s. 8d. = ... d.	1s. 4d. = ... d.	1s. 8d. = ... d.	1s. 9d. = ... d.	1s. 9d. = ... d.
1s. 7d. = ... d.	1s. 10d. = ... d.	1s. 10d. = ... d.	1s. 7d. = ... d.	1s. 11d. = ... d.
1s. 11d. = ... d.	1s. 9d. = ... d.	1s. 6d. = ... d.	1s. 9d. = ... d.	1s. 10d. = ... d.
1s. 5d. = ... d.	1s. 11d. = ... d.	1s. 11d. = ... d.	1s. 8d. = ... d.	1s. 11d. = ... d.
1s. 11d. = ... d.	2s. 0d. = ... d.	2s. 0d. = ... d.	2s. 1d. = ... d.	2s. 2d. = ... d.
2s. 1d. = ... d.	2s. 3d. = ... d.	2s. 2d. = ... d.	2s. 0d. = ... d.	2s. 3d. = ... d.
2s. 0d. = ... d.	2s. 2d. = ... d.	2s. 1d. = ... d.	2s. 3d. = ... d.	2s. 2d. = ... d.
1s. 10d. = ... d.	1s. 9d. = ... d.	2s. 3d. = ... d.	1s. 8d. = ... d.	1s. 11d. = ... d.

go to page 22, A

A	1s. 1d. = ...d.	1s. 3d. = ...d.	1s. 0d. = ...d.	1s. 5d. = ...d.	1s. 2d. = ...d.
	1s. 4d. = ...d.	1s. 8d. = ...d.	1s. 6d. = ...d.	1s. 9d. = ...d.	1s. 7d. = ...d.

10 correct, go to C; 9 or less, go to B

B	1s. 0d. = ...d.	1s. 1d. = ...d.	1s. 1d. = ...d.	1s. 2d. = ...d.	1s. 3d. = ...d.
	1s. 1d. = ...d.	1s. 3d. = ...d.	1s. 3d. = ...d.	1s. 4d. = ...d.	1s. 4d. = ...d.
	1s. 5d. = ...d.	1s. 6d. = ...d.	1s. 5d. = ...d.	1s. 3d. = ...d.	1s. 5d. = ...d.
	1s. 7d. = ...d.	1s. 7d. = ...d.	1s. 8d. = ...d.	1s. 9d. = ...d.	1s. 9d. = ...d.
	1s. 6d. = ...d.	1s. 8d. = ...d.	1s. 4d. = ...d.	1s. 9d. = ...d.	1s. 3d. = ...d.
	1s. 7d. = ...d.	1s. 9d. = ...d.	1s. 6d. = ...d.	1s. 8d. = ...d.	1s. 9d. = ...d.
	1s. 9d. = ...d.	1s. 6d. = ...d.	1s. 8d. = ...d.	1s. 9d. = ...d.	1s. 7d. = ...d.

go to page 24, A

C	1s. 8d. = ...d.	1s. 10d. = ...d.	1s. 9d. = ...d.	2s. 0d. = ...d.	2s. 3d. = ...d.
	2s. 1d. = ...d.	2s. 4d. = ...d.	1s. 7d. = ...d.	2s. 2d. = ...d.	1s. 11d. = ...d.

10 correct, go to page 23, A; 9 or less, go to D

D	1s. 10d. = ...d.	1s. 11d. = ...d.	1s. 10d. = ...d.	1s. 8d. = ...d.	1s. 10d. = ...d.
	1s. 8d. = ...d.	1s. 10d. = ...d.	1s. 11d. = ...d.	2s. 0d. = ...d.	2s. 1d. = ...d.
	2s. 0d. = ...d.	2s. 2d. = ...d.	2s. 2d. = ...d.	1s. 11d. = ...d.	1s. 11d. = ...d.
	2s. 1d. = ...d.	2s. 3d. = ...d.	2s. 3d. = ...d.	1s. 10d. = ...d.	1s. 8d. = ...d.
	2s. 2d. = ...d.	2s. 0d. = ...d.	1s. 10d. = ...d.	2s. 3d. = ...d.	2s. 3d. = ...d.
	1s. 11d. = ...d.	2s. 3d. = ...d.	2s. 1d. = ...d.	2s. 0d. = ...d.	2s. 2d. = ...d.
	1s. 7d. = ...d.	2s. 2d. = ...d.	1s. 9d. = ...d.	1s. 5d. = ...d.	1s. 8d. = ...d.
	1s. 10d. = ...d.	2s. 0d. = ...d.	1s. 11d. = ...d.	1s. 10d. = ...d.	2s. 3d. = ...d.

go to page 24, C

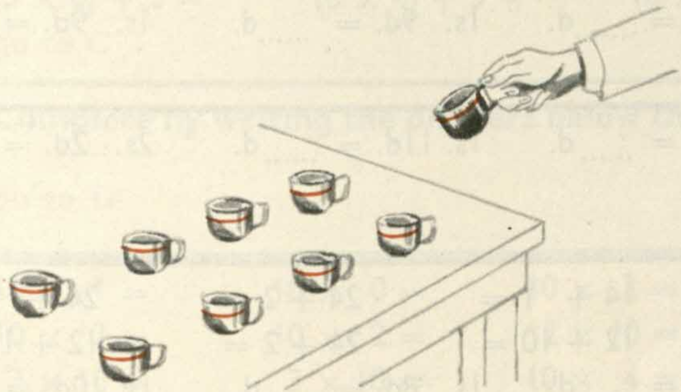
A **Change to inches:**

1 ft. 1 in. = ... in.	1 ft. 0 in. = ... in.	1 ft. 2 in. = ... in.	1 ft. 4 in. = ... in.
2 ft. 0 in. = ... in.	2 ft. 1 in. = ... in.	1 ft. 5 in. = ... in.	1 ft. 8 in. = ... in.
1 ft. 3 in. = ... in.	1 ft. 6 in. = ... in.	2 ft. 2 in. = ... in.	1 ft. 9 in. = ... in.
2 ft. 2 in. = ... in.	1 ft. 10 in. = ... in.	1 ft. 7 in. = ... in.	1 ft. 11 in. = ... in.
1 ft. 11 in. = ... in.	2 ft. 0 in. = ... in.	1 ft. 8 in. = ... in.	2 ft. 3 in. = ... in.

go to B

B

CARRYING



Counting in twos, how many cups are on the table?
How many cups are being carried to the table?
How many cups are there altogether?

Complete:

4 × 2 = (4 × 2) + 1 = (2 × 4) + 1 =

go to C

C

(2 × 1) + 1 =	(3 × 1) + 1 =	(1 × 3) + 2 =	(2 × 2) + 1 =	(3 × 2) + 1 =
(2 × 2) + 2 =	(3 × 2) + 2 =	(2 × 3) + 1 =	(4 × 3) + 1 =	(5 × 2) + 1 =
(2 × 3) + 2 =	(2 × 4) + 1 =	(2 × 5) + 2 =	(4 × 4) + 2 =	(3 × 5) + 3 =
(2 × 0) + 1 =	(3 × 0) + 1 =	(3 × 6) + 3 =	(5 × 0) + 1 =	(6 × 6) + 2 =

go to page 25, A

A

1s. 0d. = ...d.	1s. 2d. = ...d.	1s. 5d. = ...d.	1s. 1d. = ...d.	1s. 4d. = ...d.
1s. 3d. = ...d.	1s. 7d. = ...d.	1s. 8d. = ...d.	1s. 6d. = ...d.	1s. 9d. = ...d.

9 or 10 correct, go to page 22, C; 8 or less, go to B

B

12 + 1 =	12 + 2 =	12 + 7 =	12 + 8 =	12 + 9 =	12 + 0 =	12 + 6 =
12 + 7 =	12 + 3 =	12 + 6 =	12 + 4 =	12 + 8 =	12 + 5 =	12 + 9 =

1s. 1d. = ...d.	1s. 3d. = ...d.	1s. 3d. = ...d.	1s. 1d. = ...d.	1s. 4d. = ...d.
1s. 2d. = ...d.	1s. 4d. = ...d.	1s. 5d. = ...d.	1s. 4d. = ...d.	1s. 6d. = ...d.
1s. 6d. = ...d.	1s. 5d. = ...d.	1s. 6d. = ...d.	1s. 6d. = ...d.	1s. 7d. = ...d.
1s. 7d. = ...d.	1s. 9d. = ...d.	1s. 9d. = ...d.	1s. 7d. = ...d.	1s. 8d. = ...d.
1s. 8d. = ...d.	1s. 8d. = ...d.	1s. 7d. = ...d.	1s. 9d. = ...d.	1s. 9d. = ...d.

go to page 22, C

C

2s. 1d. = ...d.	1s. 10d. = ...d.	2s. 3d. = ...d.	1s. 11d. = ...d.	2s. 2d. = ...d.

5 correct, go to page 23, A; 4 or less go to D

D

12 + 8 =	12 + 10 =	12 + 9 =	14 + 1 =	24 + 2 =	24 + 0 =
24 + 1 =	12 + 11 =	24 + 3 =	12 + 10 =	24 + 2 =	12 + 11 =

2s. 0d. = ...d.	1s. 11d. = ...d.	2s. 1d. = ...d.	1s. 8d. = ...d.	1s. 10d. = ...d.
1s. 9d. = ...d.	2s. 0d. = ...d.	1s. 10d. = ...d.	2s. 0d. = ...d.	1s. 11d. = ...d.
2s. 1d. = ...d.	2s. 3d. = ...d.	2s. 3d. = ...d.	2s. 1d. = ...d.	1s. 10d. = ...d.
1s. 11d. = ...d.	1s. 8d. = ...d.	2s. 1d. = ...d.	2s. 3d. = ...d.	1s. 11d. = ...d.
2s. 2d. = ...d.	2s. 2d. = ...d.	2s. 0d. = ...d.	1s. 10d. = ...d.	2s. 1d. = ...d.
2s. 1d. = ...d.	1s. 11d. = ...d.	2s. 2d. = ...d.	1s. 9d. = ...d.	2s. 3d. = ...d.

go to page 23, A

A

$(3 \times 3) + 1 =$	$(6 \times 2) + 0 =$	$(4 \times 6) + 3 =$	$(5 \times 5) + 2 =$	$(6 \times 5) + 4 =$

5 correct, go to C; 4 or less, go to B

B

$(2 \times 1) + 1 =$	$(2 \times 0) + 1 =$	$(3 \times 0) + 1 =$	$(3 \times 0) + 2 =$	$(5 \times 0) + 3 =$
$(3 \times 2) + 1 =$	$(3 \times 2) + 3 =$	$(2 \times 4) + 2 =$	$(3 \times 3) + 2 =$	$(3 \times 4) + 2 =$
$(2 \times 2) + 3 =$	$(2 \times 5) + 4 =$	$(3 \times 5) + 1 =$	$(5 \times 1) + 3 =$	$(2 \times 6) + 2 =$
$(6 \times 1) + 0 =$	$(5 \times 3) + 0 =$	$(4 \times 3) + 0 =$	$(4 \times 5) + 2 =$	$(3 \times 6) + 3 =$
$(3 \times 4) + 4 =$	$(6 \times 3) + 3 =$	$(6 \times 0) + 2 =$	$(4 \times 0) + 0 =$	$(6 \times 2) + 2 =$
$(5 \times 4) + 2 =$	$(4 \times 4) + 4 =$	$(5 \times 5) + 3 =$	$(6 \times 3) + 2 =$	$(4 \times 6) + 3 =$
$(5 \times 6) + 3 =$	$(6 \times 4) + 3 =$	$(6 \times 6) + 0 =$	$(6 \times 5) + 4 =$	$(6 \times 6) + 4 =$

go to C

C **Complete by writing the answers below the line:**

	0	1	2	3	4	5	6
$10 \times$							

go to D

D

$10 \times 1 =$	$10 \times 0 =$	$10 \times 2 =$	$10 \times 1 =$	$10 \times 0 =$	$10 \times 3 =$
$10 \times 3 =$	$10 \times 2 =$	$2 \times 10 =$	$3 \times 10 =$	$10 \times 3 =$	$3 \times 10 =$
$2 \times 10 =$	$3 \times 10 =$	$10 \times 4 =$	$4 \times 10 =$	$10 \times 4 =$	$4 \times 10 =$
$10 \times 6 =$	$10 \times 5 =$	$10 \times 6 =$	$5 \times 10 =$	$6 \times 10 =$	$5 \times 10 =$
$5 \times 10 =$	$10 \times 6 =$	$6 \times 10 =$	$10 \times 5 =$	$5 \times 10 =$	$6 \times 10 =$
$10 \times 0 =$	$10 \times 1 =$	$1 \times 10 =$	$2 \times 10 =$	$3 \times 10 =$	$10 \times 4 =$
$10 \times 5 =$	$5 \times 10 =$	$6 \times 10 =$	$4 \times 10 =$	$10 \times 6 =$	$10 \times 5 =$
$5 \times 10 =$	$3 \times 10 =$	$10 \times 0 =$	$10 \times 6 =$	$10 \times 2 =$	$4 \times 10 =$

go to page 26, A

A 10 × 1 = 10 × 4 = 10 × 3 = 2 × 10 = 10 × 0 = 10 × 6 = 5 × 10 =

7 correct, go to C; 6 or less, go to B

B

10 × 1 =	10 × 2 =	2 × 10 =	2 × 10 =	10 × 4 =	4 × 10 =
10 × 3 =	10 × 4 =	4 × 10 =	3 × 10 =	10 × 3 =	2 × 10 =
10 × 0 =	10 × 5 =	5 × 10 =	4 × 10 =	5 × 10 =	6 × 10 =
10 × 6 =	10 × 0 =	10 × 6 =	3 × 10 =	10 × 6 =	10 × 6 =
5 × 10 =	10 × 2 =	10 × 6 =	10 × 4 =	3 × 10 =	5 × 10 =

go to page 28, A

C **Complete by writing the answers below the line:**

10 ×	7	8	9	10	11	12

go to D

D

10 × 7 =	10 × 8 =	8 × 10 =	9 × 10 =	10 × 10 =	7 × 10 =
10 × 10 =	11 × 10 =	12 × 10 =	10 × 12 =	10 × 7 =	8 × 10 =
8 × 10 =	10 × 10 =	7 × 10 =	12 × 10 =	9 × 10 =	11 × 10 =
10 × 8 =	8 × 10 =	10 × 7 =	7 × 10 =	8 × 10 =	10 × 9 =
10 × 12 =	12 × 10 =	10 × 11 =	8 × 10 =	11 × 10 =	10 × 10 =
10 × 9 =	9 × 10 =	7 × 10 =	10 × 10 =	9 × 10 =	12 × 10 =
7 × 10 =	8 × 10 =	9 × 10 =	10 × 9 =	10 × 10 =	10 × 11 =

go to E

E **Complete, counting in tens:**

(a) 10, 20, ..., ..., 50 .

(b) 40, 50, ..., 70, ..., ..., ..., ...

(c) 80, 90, ..., ..., ..., ..., ..., ..., ..., ..., ..., ..., 200 .

go to page 28, C

A **Complete by writing the answers below the line:**

2 ×	6	7	8	9	10	11	12

go to B

B **Practice:**

2 × 8 =	2 × 8 =	8 × 2 =	2 × 8 =	9 × 2 =	9 × 2 =
2 × 10 =	10 × 2 =	2 × 11 =	11 × 2 =	2 × 7 =	2 × 7 =
2 × 8 =	2 × 9 =	9 × 2 =	10 × 2 =	11 × 2 =	2 × 12 =
2 × 12 =	2 × 11 =	2 × 8 =	2 × 8 =	2 × 9 =	7 × 2 =
2 × 8 =	2 × 9 =	9 × 2 =	2 × 12 =	12 × 2 =	2 × 10 =
9 × 2 =	2 × 11 =	11 × 2 =	2 × 7 =	2 × 8 =	2 × 9 =
12 × 2 =	2 × 12 =	10 × 2 =	12 × 2 =	11 × 2 =	9 × 2 =
7 × 2 =	2 × 7 =	2 × 9 =	2 × 8 =	2 × 7 =	2 × 6 =
2 × 10 =	2 × 9 =	8 × 2 =	2 × 7 =	9 × 2 =	12 × 2 =

go to C

C **Complete, counting in twos:**

2, ..., 6, ..., ..., 12 .   6, 8, ..., ..., ..., ..., ..., 20 .   14, ..., ..., ..., ..., 24 .

24, 22, ..., ..., ...   20, 18, ..., ..., ..., ..., ..., ..., 20, 18, ..., ...

go to D

D

(2 × 6) + 1 =	(2 × 6) + 3 =	(2 × 7) + 4 =	(8 × 2) + 3 =	(9 × 2) + 4 =
(2 × 8) + 4 =	(2 × 9) + 3 =	(2 × 11) + 5 =	(2 × 10) + 6 =	(2 × 12) + 5 =
(2 × 7) + 3 =	(2 × 7) + 0 =	(2 × 12) + 0 =	(2 × 9) + 2 =	(2 × 11) + 4 =
(2 × 12) + 4 =	(2 × 9) + 4 =	(2 × 8) + 5 =	(2 × 10) + 8 =	(2 × 12) + 6 =

go to page 28, E

A	10 × 0 =	3 × 10 =	1 × 10 =	10 × 6 =	4 × 10 =	10 × 5 =	10 × 2 =

6 or 7 correct, go to page 26, C; 5 or less, go to B

B	10 × 1 =	10 × 2 =	10 × 3 =	3 × 10 =	2 × 10 =	1 × 10 =
	10 × 4 =	10 × 5 =	5 × 10 =	6 × 10 =	10 × 6 =	10 × 0 =
	3 × 10 =	6 × 10 =	4 × 10 =	5 × 10 =	6 × 10 =	10 × 6 =
	10 × 0 =	10 × 5 =	5 × 10 =	4 × 10 =	3 × 10 =	2 × 10 =

go to page 26, C

C	7 × 10 =	10 × 10 =	8 × 10 =	10 × 9 =	12 × 10 =	10 × 11 =

6 correct, go to page 27, A; 5 or less, go to D

D	10 × 2 =	10 × 3 =	10 × 4 =	10 × 7 =	10 × 8 =	10 × 9 =
	7 × 10 =	8 × 10 =	9 × 10 =	10 × 10 =	9 × 10 =	11 × 10 =
	10 × 11 =	10 × 12 =	12 × 10 =	11 × 10 =	10 × 12 =	10 × 11 =
	10 × 12 =	11 × 10 =	10 × 9 =	7 × 10 =	10 × 8 =	12 × 10 =

go to page 30, A

E	2 × 10 =	7 × 2 =	2 × 9 =	9 × 2 =	2 × 12 =	8 × 2 =	2 × 11 =

7 correct, go to page 29, A; 6 or less, go to F

F	2 × 5 =	2 × 6 =	2 × 7 =	7 × 2 =	2 × 7 =	2 × 8 =	8 × 2 =
	2 × 11 =	2 × 12 =	12 × 2 =	10 × 2 =	11 × 2 =	2 × 12 =	2 × 12 =
	2 × 10 =	2 × 11 =	2 × 11 =	2 × 8 =	2 × 8 =	8 × 2 =	2 × 9 =
	9 × 2 =	2 × 9 =	2 × 8 =	2 × 7 =	7 × 2 =	2 × 6 =	2 × 12 =
	2 × 8 =	2 × 7 =	12 × 2 =	2 × 9 =	2 × 12 =	10 × 2 =	11 × 2 =

go to page 30, C

A **Complete by writing the answers below the line:**

3 ×	6	7	8	9	10	11	12

go to B

B **Practice:**

3 × 7 =	3 × 6 =	3 × 8 =	3 × 8 =	8 × 3 =	3 × 7 =
3 × 8 =	3 × 9 =	3 × 9 =	3 × 7 =	3 × 9 =	9 × 3 =
3 × 6 =	3 × 7 =	3 × 7 =	3 × 8 =	3 × 10 =	3 × 9 =
9 × 3 =	9 × 3 =	11 × 3 =	3 × 11 =	7 × 3 =	3 × 12 =
10 × 2 =	10 × 3 =	9 × 3 =	9 × 3 =	9 × 2 =	3 × 9 =
3 × 7 =	7 × 3 =	7 × 3 =	3 × 10 =	3 × 11 =	12 × 3 =
12 × 3 =	12 × 2 =	12 × 3 =	3 × 12 =	3 × 11 =	3 × 11 =
3 × 6 =	3 × 7 =	8 × 3 =	8 × 3 =	12 × 3 =	3 × 12 =
3 × 11 =	3 × 11 =	3 × 10 =	3 × 12 =	3 × 12 =	3 × 8 =

go to C

C **Complete, counting in threes:**

0, 3, ..., ..., 12 .
9, 12, ..., ..., ..., ..., 27 .
21, 24, ..., ..., ..., ...
36, 33, ..., ..., ...
30, ..., ..., 21, ..., ..., ...
......., ..., 33, ..., 27, ...

go to page 31, A

D

24 + 2 =	24 + 4 =	24 + 5 =	24 + 6 =	24 + 7 =	24 + 9 =
24 + 5 =	24 + 8 =	24 + 10 =	24 + 11 =	36 + 2 =	36 + 4 =
36 + 3 =	36 + 5 =	36 + 7 =	36 + 6 =	36 + 8 =	36 + 5 =
24 + 6 =	36 + 7 =	24 + 8 =	36 + 10 =	24 + 9 =	36 + 9 =

go to page 30, E

A

10 × 7 =	10 × 10 =	9 × 10 =	10 × 12 =	8 × 10 =	10 × 11 =

6 correct, go to page 27, A; 5 or less, go to B

B

10 × 1 =	10 × 2 =	10 × 7 =	10 × 8 =	8 × 10 =	10 × 9 =
10 × 7 =	7 × 10 =	10 × 10 =	10 × 11 =	11 × 10 =	10 × 12 =
11 × 10 =	10 × 12 =	10 × 9 =	9 × 10 =	8 × 10 =	7 × 10 =
9 × 10 =	10 × 10 =	7 × 10 =	10 × 7 =	12 × 10 =	10 × 9 =
10 × 7 =	10 × 9 =	10 × 12 =	10 × 11 =	10 × 10 =	10 × 8 =

go to page 27, A

C

2 × 8 =	10 × 2 =	2 × 12 =	11 × 2 =	2 × 9 =	9 × 2 =	2 × 7 =

6 or 7 correct, go to page 29, A; 5 or less go to D

D

2 × 5 =	2 × 6 =	2 × 7 =	7 × 2 =	2 × 8 =	8 × 2 =	2 × 9 =
2 × 9 =	10 × 2 =	2 × 11 =	11 × 2 =	2 × 7 =	2 × 9 =	10 × 2 =
2 × 11 =	2 × 11 =	2 × 12 =	12 × 2 =	12 × 2 =	2 × 12 =	2 × 9 =
2 × 9 =	9 × 2 =	2 × 11 =	2 × 12 =	11 × 2 =	2 × 8 =	2 × 7 =
2 × 7 =	7 × 2 =	2 × 8 =	8 × 2 =	8 × 2 =	2 × 12 =	2 × 10 =
2 × 11 =	11 × 2 =	2 × 12 =	2 × 8 =	2 × 12 =	2 × 7 =	2 × 9 =

go to page 29, A

E **Change shillings to pence and feet to inches:**

1s. = ... d. 2s. = ... d. 3s. = ... d. 2 ft. = ... in. 1 ft. = ... in. 3 ft. = ... in.

1 ft. 7 in. = ... in. 2 ft. 5 in. = ... in. 2 ft. 7 in. = ... in. 3 ft. 2 in. = ... in.

2s. 6d. = ... d. 2s. 8d. = ... d. 3s. 4d. = ... d. 3s. 7d. = ... d.

go to page 31, C

A

3 × 7 =	3 × 10 =	3 × 11 =	3 × 9 =	7 × 3 =	3 × 12 =	8 × 3 =

7 correct, go to page 29, D; 6 or less, go to B

B

3 × 6 =	3 × 7 =	3 × 7 =	7 × 3 =	3 × 10 =	3 × 11 =	3 × 12 =
3 × 12 =	12 × 3 =	12 × 3 =	3 × 11 =	3 × 11 =	3 × 7 =	7 × 3 =
3 × 8 =	8 × 3 =	3 × 8 =	3 × 8 =	3 × 9 =	3 × 9 =	9 × 3 =
7 × 3 =	8 × 2 =	8 × 3 =	3 × 9 =	9 × 2 =	9 × 3 =	10 × 3 =
3 × 11 =	3 × 8 =	3 × 12 =	12 × 3 =	12 × 2 =	3 × 12 =	12 × 3 =
3 × 10 =	3 × 12 =	3 × 8 =	3 × 11 =	3 × 12 =	3 × 7 =	3 × 9 =

go to page 32, A

C **Complete by writing the answers below the line:**

4 ×	6	7	8	9	10	11	12

go to D

D **Practice:**

4 × 7 =	6 × 4 =	4 × 6 =	4 × 7 =	7 × 4 =	4 × 7 =	4 × 8 =
4 × 8 =	8 × 4 =	4 × 9 =	4 × 9 =	4 × 9 =	4 × 10 =	4 × 11 =
7 × 4 =	7 × 4 =	4 × 8 =	8 × 4 =	4 × 9 =	4 × 9 =	9 × 3 =
9 × 4 =	9 × 4 =	4 × 7 =	4 × 6 =	4 × 8 =	4 × 12 =	4 × 12 =
4 × 8 =	4 × 8 =	4 × 11 =	4 × 11 =	4 × 10 =	4 × 7 =	11 × 4 =
4 × 7 =	7 × 2 =	7 × 4 =	10 × 4 =	4 × 9 =	9 × 3 =	9 × 4 =
4 × 10 =	4 × 11 =	4 × 12 =	4 × 12 =	12 × 3 =	12 × 4 =	12 × 4 =
4 × 9 =	4 × 10 =	4 × 9 =	4 × 8 =	4 × 10 =	4 × 12 =	4 × 11 =
4 × 8 =	4 × 12 =	4 × 11 =	4 × 9 =	4 × 11 =	4 × 9 =	4 × 12 =

go to page 32, C

A	3 × 8 =	8 × 3 =	3 × 9 =	3 × 7 =	10 × 3 =	3 × 12 =	11 × 3 =

6 or 7 correct, go to page 29, D; 5 or less, go to B

B	3 × 5 =	3 × 6 =	3 × 7 =	3 × 7 =	7 × 3 =	3 × 8 =	3 × 8 =
	8 × 3 =	3 × 9 =	9 × 2 =	9 × 3 =	3 × 9 =	3 × 10 =	10 × 3 =
	3 × 11 =	11 × 3 =	7 × 0 =	8 × 0 =	9 × 3 =	3 × 9 =	9 × 3 =
	3 × 11 =	3 × 12 =	3 × 12 =	12 × 3 =	12 × 2 =	3 × 12 =	3 × 8 =
	3 × 8 =	3 × 8 =	3 × 10 =	3 × 9 =	3 × 9 =	3 × 7 =	3 × 7 =
	3 × 11 =	3 × 10 =	3 × 12 =	3 × 8 =	3 × 12 =	3 × 9 =	3 × 9 =
	3 × 12 =	3 × 9 =	3 × 7 =	3 × 11 =	3 × 9 =	3 × 8 =	3 × 12 =

go to page 29, D

C	4 × 7 =	4 × 9 =	9 × 4 =	4 × 11 =	8 × 4 =	10 × 4 =	4 × 12 =

7 correct, go to E; 6 or less, go to D

D	4 × 5 =	5 × 4 =	4 × 6 =	4 × 7 =	7 × 4 =	8 × 4 =	4 × 8 =
	4 × 8 =	4 × 9 =	4 × 9 =	9 × 2 =	9 × 4 =	9 × 4 =	4 × 9 =
	4 × 10 =	10 × 4 =	4 × 11 =	4 × 11 =	4 × 8 =	4 × 7 =	4 × 11 =
	4 × 8 =	8 × 4 =	4 × 7 =	4 × 7 =	4 × 7 =	4 × 9 =	4 × 7 =
	4 × 11 =	4 × 12 =	4 × 12 =	4 × 11 =	4 × 12 =	4 × 10 =	4 × 12 =
	4 × 7 =	4 × 10 =	4 × 7 =	4 × 12 =	4 × 8 =	4 × 11 =	4 × 9 =

go to page 34, A

E **Change to pence:**

1s. 8d. =	2s. 6d. =	2s. 8d. =	3s. 0d. =	3s. 6d. =	2s. 9d. =
3s. 7d. =	3s. 10d. =	4s. 3d. =	4s. 5d. =	4s. 8d. =	4s. 10d. =

go to page 33, A

A **Complete by writing the answers below the line:**

	6	7	8	9	10	11	12
5 ×							

go to B

B **Practice:**

5 × 7 =	7 × 5 =	6 × 5 =	5 × 6 =	5 × 8 =	5 × 8 =	8 × 5 =
5 × 10 =	5 × 11 =	5 × 11 =	5 × 12 =	5 × 12 =	5 × 11 =	5 × 12 =
5 × 7 =	7 × 5 =	5 × 7 =	7 × 4 =	5 × 8 =	8 × 4 =	8 × 5 =
8 × 5 =	5 × 8 =	5 × 6 =	5 × 9 =	9 × 5 =	9 × 5 =	5 × 9 =
10 × 5 =	5 × 11 =	5 × 12 =	5 × 11 =	5 × 12 =	5 × 11 =	5 × 12 =
5 × 9 =	9 × 5 =	9 × 3 =	9 × 5 =	5 × 9 =	5 × 7 =	8 × 5 =
5 × 10 =	8 × 5 =	5 × 8 =	5 × 12 =	5 × 12 =	12 × 4 =	12 × 5 =
5 × 7 =	5 × 9 =	5 × 11 =	5 × 7 =	5 × 10 =	5 × 12 =	5 × 9 =

go to C

C **Complete:**

0, 5, ..., ..., 20
0, 4, 8, ..., ..., ..., ..., 28
28, ..., 36, ..., ..., ...
24, ..., 32, ..., ...
0, 5, ..., 15, ..., ..., ..., ...
35, 40, ..., ..., ..., ...

go to page 34, D

D **Change to inches:**

1 ft. 8 in. =	2 ft. 10 in. =	5 ft. 2 in. =	3 ft. 6 in. =	5 ft. 0 in. =
5 ft. 3 in. =	3 ft. 9 in. =	5 ft. 6 in. =	5 ft. 8 in. =	4 ft. 5 in. =
4 ft. 8 in. =	5 ft. 10 in. =	4 ft. 9 in. =	5 ft. 9 in. =	5 ft. 11 in. =
3 ft. 10 in. =	4 ft. 10 in. =	5 ft. 11 in. =	5 ft. 7 in. =	5 ft. 10 in. =

go to page 34, E

A

4 × 8 =	4 × 9 =	4 × 11 =	4 × 7 =	4 × 12 =	4 × 10 =	7 × 4 =

6 or 7 correct, go to page 32, E; 5 or less, go to B

B

4 × 5 =	4 × 6 =	4 × 7 =	4 × 8 =	4 × 7 =	4 × 7 =	4 × 8 =
4 × 8 =	8 × 4 =	8 × 2 =	7 × 4 =	7 × 4 =	8 × 4 =	4 × 9 =
4 × 9 =	4 × 10 =	4 × 9 =	4 × 10 =	4 × 11 =	4 × 9 =	4 × 11 =
4 × 11 =	4 × 11 =	4 × 12 =	4 × 12 =	4 × 11 =	4 × 12 =	4 × 9 =
4 × 12 =	4 × 8 =	4 × 7 =	4 × 9 =	4 × 8 =	4 × 10 =	4 × 12 =
4 × 7 =	4 × 12 =	4 × 8 =	4 × 11 =	4 × 12 =	4 × 9 =	4 × 7 =
4 × 8 =	4 × 11 =	4 × 7 =	4 × 9 =	4 × 10 =	4 × 8 =	4 × 12 =

go to page 32, E

C

5 × 7 =	5 × 9 =	9 × 5 =	5 × 11 =	5 × 8 =	5 × 12 =	5 × 10 =

7 correct, go to page 33, D; 6 or less, go to D

D

5 × 6 =	5 × 7 =	5 × 7 =	5 × 8 =	5 × 8 =	5 × 7 =	5 × 7 =
5 × 5 =	5 × 8 =	5 × 8 =	5 × 9 =	5 × 9 =	9 × 5 =	5 × 9 =
5 × 9 =	5 × 11 =	5 × 11 =	11 × 2 =	11 × 5 =	5 × 7 =	11 × 5 =
5 × 10 =	10 × 3 =	10 × 5 =	5 × 11 =	5 × 12 =	12 × 5 =	5 × 12 =
5 × 12 =	5 × 9 =	5 × 12 =	5 × 8 =	5 × 11 =	5 × 12 =	9 × 5 =

go to page 36, A

E

Change to pence:

1s. 10d. =	2s. 8d. =	3s. 7d. =	4s. 2d. =	4s. 6d. =	4s. 10d. =
5s. 7d. =	3s. 10d. =	5s. 10d. =	4s. 9d. =	5s. 8d. =	5s. 11d. =

go to page 35, A

A **Complete by writing the answers below the line:**

6 ×	6	7	8	9	10	11	12

go to B

B **Practice:**

6 × 6 =	6 × 7 =	7 × 6 =	6 × 8 =	8 × 6 =	7 × 6 =
6 × 7 =	6 × 8 =	6 × 9 =	6 × 9 =	9 × 6 =	6 × 8 =
6 × 8 =	6 × 9 =	6 × 10 =	6 × 10 =	6 × 11 =	6 × 11 =
6 × 10 =	6 × 11 =	11 × 5 =	11 × 6 =	11 × 6 =	6 × 10 =
6 × 11 =	6 × 12 =	6 × 12 =	6 × 11 =	6 × 12 =	6 × 12 =
6 × 7 =	6 × 8 =	6 × 7 =	7 × 6 =	8 × 5 =	8 × 6 =
6 × 8 =	6 × 9 =	6 × 9 =	9 × 6 =	6 × 8 =	6 × 9 =
6 × 7 =	6 × 10 =	6 × 7 =	6 × 11 =	6 × 12 =	6 × 12 =
6 × 6 =	6 × 7 =	7 × 4 =	7 × 6 =	8 × 6 =	10 × 3 =
11 × 4 =	11 × 6 =	12 × 6 =	12 × 5 =	12 × 6 =	6 × 12 =
6 × 9 =	6 × 8 =	6 × 11 =	6 × 10 =	6 × 12 =	6 × 8 =
6 × 10 =	6 × 12 =	6 × 8 =	6 × 11 =	6 × 9 =	6 × 7 =

go to page 36, C

C

2 × 3 =	4 × 0 =	5 × 0 =	3 × 3 =	2 × 4 =	4 × 2 =	4 × 4 =
3 × 4 =	2 × 6 =	3 × 7 =	7 × 3 =	2 × 7 =	4 × 6 =	5 × 4 =
2 × 8 =	4 × 7 =	5 × 6 =	6 × 7 =	3 × 8 =	2 × 12 =	4 × 9 =
4 × 10 =	3 × 9 =	6 × 10 =	5 × 11 =	3 × 12 =	4 × 11 =	6 × 8 =
5 × 9 =	5 × 12 =	6 × 7 =	4 × 12 =	6 × 9 =	5 × 9 =	6 × 12 =
4 × 3 =	6 × 9 =	6 × 0 =	6 × 8 =	5 × 12 =	6 × 12 =	5 × 8 =

go to page 36, E

A

5 × 8 =	5 × 10 =	5 × 7 =	5 × 11 =	9 × 5 =	12 × 5 =	5 × 12 =

7 correct, go to page 33, D; 6 or less, go to B

B

5 × 6 =	5 × 8 =	5 × 10 =	5 × 12 =	5 × 8 =	5 × 12 =	5 × 6 =
5 × 5 =	5 × 7 =	5 × 9 =	5 × 11 =	5 × 11 =	5 × 9 =	5 × 8 =
5 × 7 =	7 × 2 =	7 × 5 =	7 × 5 =	8 × 5 =	5 × 8 =	5 × 7 =
8 × 5 =	9 × 4 =	9 × 5 =	5 × 12 =	12 × 5 =	5 × 12 =	5 × 10 =
5 × 10 =	5 × 11 =	11 × 5 =	11 × 3 =	11 × 4 =	11 × 5 =	11 × 5 =
5 × 8 =	5 × 12 =	5 × 7 =	5 × 10 =	5 × 11 =	5 × 9 =	5 × 12 =

go to page 33, D

C

6 × 7 =	6 × 8 =	8 × 6 =	6 × 11 =	6 × 10 =	9 × 6 =	6 × 12 =

7 correct, go to page 35, C; 6 or less, go to D

D

5 × 6 =	6 × 6 =	7 × 6 =	6 × 7 =	6 × 7 =	6 × 8 =	6 × 8 =
6 × 8 =	8 × 6 =	6 × 9 =	6 × 9 =	6 × 6 =	6 × 9 =	10 × 6 =
9 × 6 =	6 × 9 =	6 × 10 =	6 × 11 =	11 × 5 =	11 × 6 =	6 × 12 =
6 × 12 =	6 × 12 =	6 × 11 =	6 × 12 =	6 × 9 =	6 × 12 =	6 × 10 =
6 × 7 =	8 × 6 =	6 × 8 =	6 × 9 =	7 × 6 =	9 × 6 =	6 × 12 =

go to page 38, A

E **Change shillings to pence and feet to inches:**

2s. 7d. =	3s. 3d. =	2s. 10d. =	4s. 0d. =	3s. 6d. =	5s. 5d. =
6s. 0d. =	4s. 4d. =	5s. 9d. =	4s. 10d. =	5s. 11d. =	6s. 8d. =

1 ft. 11 in. =	2 ft. 9 in. =	4 ft. 8 in. =	3 ft. 9 in. =	5 ft. 10 in. =
2 ft. 11 in. =	4 ft. 9 in. =	3 ft. 11 in. =	4 ft. 11 in. =	6 ft. 10 in. =

go to page 38, C

A **A gardener has planted some cabbages, 5 in each row**



1. How many rows are there?
2. How many cabbages has he planted?
3. How many are left over?
4. How many cabbages were there to begin with?
5. Had 17 plants been arranged 3 in each row, how many full rows would there have been?
6. How many plants would there have been left over?
7. With 16 plants arranged 5 in a row, how many full rows would there have been?
8. How many plants would there have been left over?
9. With 16 plants arranged 4 in a row, how many full rows would there have been?
10. How many plants would there have been left over?
11. With 17 plants arranged 4 in a row, how many full rows would there have been?
12. How many plants would there have been left over?

go to B

B **Practice:**

3 − 2 =	13 − 12 =	14 − 12 =	7 − 5 =	17 − 15 =	16 − 15 =	15 − 14 =
8 − 6 =	18 − 16 =	17 − 16 =	20 − 18 =	23 − 20 =	19 − 16 =	20 − 19 =
23 − 20 =	22 − 21 =	23 − 21 =	26 − 24 =	27 − 25 =	29 − 25 =	30 − 28 =
31 − 28 =	31 − 27 =	34 − 30 =	34 − 32 =	35 − 33 =	37 − 36 =	40 − 36 =
41 − 36 =	36 − 35 =	39 − 35 =	44 − 42 =	46 − 42 =	47 − 45 =	50 − 48 =
52 − 48 =	56 − 54 =	59 − 54 =	65 − 60 =	70 − 66 =	73 − 72 =	77 − 72 =

go to page 39, A

A

6 × 8 =	6 × 9 =	10 × 6 =	7 × 6 =	6 × 12 =	9 × 6 =	6 × 11 =

6 or 7 correct, go to page 35, C; 5 or less, go to B

B

2 × 6 =	5 × 6 =	10 × 6 =	6 × 5 =	6 × 6 =	6 × 7 =	7 × 6 =
6 × 6 =	6 × 7 =	7 × 6 =	6 × 8 =	6 × 7 =	6 × 8 =	6 × 8 =
6 × 8 =	6 × 9 =	6 × 9 =	6 × 9 =	9 × 5 =	9 × 6 =	9 × 6 =
6 × 7 =	7 × 6 =	7 × 4 =	7 × 6 =	6 × 8 =	8 × 6 =	8 × 4 =
8 × 6 =	6 × 8 =	6 × 9 =	6 × 10 =	6 × 9 =	6 × 10 =	6 × 9 =
9 × 6 =	9 × 4 =	9 × 6 =	6 × 11 =	6 × 11 =	6 × 12 =	6 × 12 =
6 × 12 =	12 × 5 =	12 × 6 =	12 × 6 =	6 × 8 =	6 × 7 =	6 × 9 =
6 × 10 =	6 × 12 =	6 × 11 =	6 × 9 =	6 × 12 =	9 × 6 =	6 × 12 =
6 × 7 =	8 × 6 =	10 × 6 =	6 × 12 =	9 × 6 =	6 × 11 =	12 × 6 =

go to page 35, C

C

3s. 2d. = ... d.	3s. 8d. = ... d.	5s. 6d. = ... d.	4 ft. 3 in. = ... in.	6 ft. 9 in. = ... in.

5 correct, go to page 37, A; 4 or less, go to D

D

(2 × 12) + 2 =	(2 × 12) + 10 =	(3 × 12) + 5 =	(3 × 12) + 8 =
(4 × 12) + 3 =	(4 × 12) + 7 =	(4 × 12) + 10 =	(5 × 12) + 9 =
(6 × 12) + 5 =	(6 × 12) + 8 =	(6 × 12) + 10 =	(5 × 12) + 11 =

1s. 10d. = ... d.	2s. 7d. = ... d.	2s. 9d. = ... d.	3s. 5d. = ... d.	3s. 7d. = ... d.
4s. 4d. = ... d.	4s. 9d. = ... d.	5s. 8d. = ... d.	5s. 10d. = ... d.	6s. 6d. = ... d.

2 ft. 11 in. = ... in.	3 ft. 6 in. = ... in.	4 ft. 5 in. = ... in.	5 ft. 7 in. = ... in.
3 ft. 10 in. = ... in.	4 ft. 3 in. = ... in.	4 ft. 8 in. = ... in.	6 ft. 9 in. = ... in.
4 ft. 10 in. = ... in.	5 ft. 11 in. = ... in.	6 ft. 10 in. = ... in.	4 ft. 11 in. = ... in.
3 ft. 11 in. = ... in.	6 ft. 8 in. = ... in.	4 ft. 10 in. = ... in.	6 ft. 10 in. = ... in.

go to page 37, A

A

14 − 12 =	19 − 16 =	26 − 24 =	31 − 28 =	39 − 36 =	51 − 48 =	71 − 66 =

6 or 7 correct, go to C; 5 or less, go to B

B

3 − 2 =	13 − 2 =	13 − 12 =	14 − 12 =	15 − 14 =	16 − 14 =	17 − 16 =
18 − 16 =	19 − 18 =	19 − 16 =	16 − 15 =	15 − 12 =	17 − 15 =	20 − 18 =
21 − 20 =	23 − 20 =	23 − 21 =	25 − 24 =	27 − 24 =	28 − 27 =	26 − 24 =
30 − 27 =	30 − 28 =	31 − 28 =	29 − 27 =	26 − 25 =	29 − 25 =	29 − 24 =
33 − 30 =	34 − 32 =	35 − 33 =	38 − 36 =	40 − 36 =	41 − 36 =	38 − 35 =
44 − 40 =	44 − 42 =	47 − 42 =	47 − 44 =	46 − 45 =	49 − 45 =	58 − 54 =
50 − 48 =	52 − 48 =	58 − 55 =	65 − 60 =	70 − 66 =	71 − 66 =	76 − 72 =

go to C

C

2 × ..... = 6	3 × ..... = 6	4 × ..... = 8	2 × ..... = 12	4 × ..... = 12	3 × ..... = 12
2 × ..... = 14	4 × ..... = 20	3 × ..... = 15	2 × ..... = 18	4 × ..... = 24	4 × ..... = 28
3 × ..... = 21	2 × ..... = 22	4 × ..... = 32	4 × ..... = 40	3 × ..... = 27	4 × ..... = 36
3 × ..... = 30	4 × ..... = 44	3 × ..... = 24	3 × ..... = 33	4 × ..... = 32	4 × ..... = 48

go to D

D

Practice:

5 ÷ 2 =	5 ÷ 3 =	8 ÷ 3 =	9 ÷ 3 =	10 ÷ 3 =	12 ÷ 3 =
14 ÷ 3 =	9 ÷ 2 =	9 ÷ 4 =	13 ÷ 2 =	12 ÷ 4 =	14 ÷ 4 =
16 ÷ 3 =	17 ÷ 4 =	19 ÷ 4 =	17 ÷ 3 =	18 ÷ 3 =	20 ÷ 3 =
21 ÷ 3 =	23 ÷ 3 =	23 ÷ 4 =	24 ÷ 3 =	26 ÷ 3 =	25 ÷ 4 =
27 ÷ 3 =	29 ÷ 3 =	25 ÷ 2 =	31 ÷ 3 =	33 ÷ 3 =	35 ÷ 3 =
30 ÷ 4 =	33 ÷ 4 =	35 ÷ 4 =	38 ÷ 4 =	37 ÷ 3 =	45 ÷ 4 =
40 ÷ 4 =	49 ÷ 4 =	50 ÷ 4 =	38 ÷ 3 =	51 ÷ 4 =	42 ÷ 4 =

go to page 40, A

A	3 ÷ 2 =	7 ÷ 3 =	9 ÷ 4 =	10 ÷ 3 =	14 ÷ 3 =	19 ÷ 4 =

5 or 6 correct, go to C; 4 or less, go to B

B	2 ÷ 2 =	3 ÷ 2 =	3 ÷ 3 =	4 ÷ 3 =	5 ÷ 3 =	5 ÷ 2 =
	6 ÷ 3 =	7 ÷ 3 =	7 ÷ 2 =	4 ÷ 4 =	5 ÷ 4 =	7 ÷ 4 =
	8 ÷ 4 =	9 ÷ 4 =	11 ÷ 4 =	13 ÷ 4 =	14 ÷ 4 =	11 ÷ 3 =
	12 ÷ 3 =	13 ÷ 3 =	15 ÷ 3 =	17 ÷ 3 =	13 ÷ 2 =	15 ÷ 2 =
	16 ÷ 4 =	18 ÷ 4 =	19 ÷ 2 =	18 ÷ 3 =	19 ÷ 3 =	20 ÷ 3 =

go to page 42, A

C	18 ÷ 3 =	18 ÷ 4 =	20 ÷ 3 =	25 ÷ 2 =	26 ÷ 4 =	31 ÷ 4 =

5 or 6 correct, go to E; 4 or less, go to D

D	15 ÷ 3 =	16 ÷ 3 =	17 ÷ 3 =	19 ÷ 3 =	20 ÷ 3 =	20 ÷ 4 =
	22 ÷ 4 =	20 ÷ 2 =	21 ÷ 2 =	23 ÷ 2 =	21 ÷ 3 =	22 ÷ 3 =
	24 ÷ 4 =	25 ÷ 4 =	27 ÷ 4 =	24 ÷ 3 =	26 ÷ 3 =	29 ÷ 3 =
	28 ÷ 4 =	30 ÷ 4 =	31 ÷ 4 =	25 ÷ 2 =	29 ÷ 4 =	28 ÷ 3 =

go to page 42, C

E	33 ÷ 3 =	33 ÷ 4 =	38 ÷ 4 =	37 ÷ 3 =	45 ÷ 4 =	50 ÷ 4 =

5 or 6 correct, go to page 41, A; 4 or less, go to page 42, F

F	16 ÷ 3 =	18 ÷ 4 =	21 ÷ 2 =	23 ÷ 2 =	28 ÷ 4 =	30 ÷ 4 =
	30 ÷ 3 =	32 ÷ 3 =	34 ÷ 3 =	32 ÷ 4 =	34 ÷ 4 =	25 ÷ 2 =
	36 ÷ 4 =	38 ÷ 4 =	40 ÷ 4 =	39 ÷ 4 =	42 ÷ 4 =	37 ÷ 3 =
	43 ÷ 4 =	45 ÷ 4 =	46 ÷ 4 =	38 ÷ 3 =	48 ÷ 4 =	51 ÷ 4 =

go to page 42, E

A

2 × 12 =	12 × 2 =	12 × = 24	24 ÷ 12 =	27 ÷ 12 =	31 ÷ 12 =
3 × 12 =	12 × 3 =	4 × 12 =	12 × 4 =	12 × = 36	36 ÷ 12 =
40 ÷ 12 =	42 ÷ 12 =	12 × = 48	48 ÷ 12 =	51 ÷ 12 =	55 ÷ 12 =
29 ÷ 12 =	33 ÷ 12 =	37 ÷ 12 =	41 ÷ 12 =	45 ÷ 12 =	53 ÷ 12 =
12d. = s. d.	20d. = s. d.	24d. = s. d.	30d. = s. d.	36d. = s. d.	
35d. = s. d.	39d. = s. d.	40d. = s. d.	43d. = s. d.	51d. = s. d.	

go to B

B

5 × 2 =	2 × ..... = 10	11 ÷ 2 =	11 ÷ 5 =	2 × ..... = 12	6 × ..... = 12
6 × ..... = 18	6 × ..... = 30	5 × ..... = 20	5 × ..... = 25	6 × ..... = 24	6 × ..... = 36
6 × ..... = 42	5 × ..... = 40	5 × ..... = 35	6 × ..... = 48	6 × ..... = 54	5 × ..... = 45
5 × ..... = 50	6 × ..... = 66	6 × ..... = 60	6 × ..... = 54	5 × ..... = 60	6 × ..... = 72

go to C

C

Practice:

10 ÷ 2 =	10 ÷ 5 =	11 ÷ 5 =	12 ÷ 5 =	12 ÷ 6 =	13 ÷ 6 =
14 ÷ 5 =	17 ÷ 6 =	15 ÷ 5 =	17 ÷ 5 =	19 ÷ 5 =	18 ÷ 6 =
21 ÷ 6 =	23 ÷ 6 =	20 ÷ 5 =	23 ÷ 5 =	25 ÷ 5 =	27 ÷ 5 =
24 ÷ 6 =	25 ÷ 6 =	28 ÷ 6 =	30 ÷ 6 =	32 ÷ 6 =	34 ÷ 5 =
35 ÷ 5 =	36 ÷ 5 =	38 ÷ 5 =	36 ÷ 6 =	37 ÷ 6 =	40 ÷ 6 =
42 ÷ 6 =	44 ÷ 6 =	47 ÷ 6 =	40 ÷ 5 =	43 ÷ 5 =	45 ÷ 5 =
49 ÷ 5 =	48 ÷ 6 =	50 ÷ 6 =	52 ÷ 6 =	50 ÷ 5 =	54 ÷ 5 =
58 ÷ 5 =	54 ÷ 6 =	58 ÷ 6 =	60 ÷ 6 =	64 ÷ 6 =	63 ÷ 5 =
66 ÷ 6 =	69 ÷ 6 =	71 ÷ 6 =	72 ÷ 6 =	74 ÷ 6 =	76 ÷ 6 =
51 ÷ 4 =	70 ÷ 6 =	59 ÷ 6 =	64 ÷ 5 =	57 ÷ 6 =	73 ÷ 6 =

go to page 43, B

A	4 ÷ 3 =	7 ÷ 2 =	11 ÷ 3 =	15 ÷ 4 =	19 ÷ 2 =	18 ÷ 4 =

5 or 6 correct, go to page 40, C; 4 or less, go to B

B	3 ÷ 3 =	4 ÷ 3 =	5 ÷ 3 =	5 ÷ 2 =	6 ÷ 2 =	7 ÷ 2 =
	4 ÷ 4 =	5 ÷ 4 =	6 ÷ 4 =	7 ÷ 4 =	6 ÷ 3 =	8 ÷ 3 =
	9 ÷ 3 =	10 ÷ 3 =	11 ÷ 3 =	14 ÷ 2 =	15 ÷ 2 =	12 ÷ 4 =
	15 ÷ 4 =	12 ÷ 3 =	14 ÷ 3 =	17 ÷ 4 =	18 ÷ 4 =	16 ÷ 3 =
	19 ÷ 2 =	19 ÷ 3 =	19 ÷ 4 =	21 ÷ 2 =	23 ÷ 2 =	20 ÷ 3 =

go to page 40, C

C	24 ÷ 2 =	21 ÷ 4 =	22 ÷ 3 =	26 ÷ 4 =	29 ÷ 3 =	31 ÷ 4 =

5 or 6 correct, go to page 40, E; 4 or less, go to D

D	3 × ..... = 18	18 ÷ 3 =	19 ÷ 3 =	19 ÷ 2 =	4 × ..... = 20	20 ÷ 4 =
	22 ÷ 4 =	20 ÷ 3 =	20 ÷ 2 =	21 ÷ 2 =	4 × ..... = 24	24 ÷ 4 =
	26 ÷ 4 =	27 ÷ 4 =	3 × ..... = 21	22 ÷ 3 =	3 × ..... = 24	24 ÷ 3 =
	26 ÷ 3 =	22 ÷ 2 =	23 ÷ 2 =	3 × ..... = 27	29 ÷ 3 =	24 ÷ 2 =
	25 ÷ 2 =	4 × ..... = 28	29 ÷ 4 =	31 ÷ 4 =	31 ÷ 3 =	25 ÷ 2 =

go to page 40, E

E	33 ÷ 3 =	32 ÷ 4 =	37 ÷ 3 =	39 ÷ 4 =	46 ÷ 4 =	51 ÷ 4 =

5 or 6 correct, go to page 41, A; 4 or less, go to F

F	8 × 4 =	4 × ..... = 32	32 ÷ 4 =	33 ÷ 4 =	3 × ..... = 33	33 ÷ 3 =
	32 ÷ 3 =	35 ÷ 3 =	4 × ..... = 36	36 ÷ 4 =	39 ÷ 4 =	34 ÷ 4 =
	4 × ...... = 40	40 ÷ 4 =	42 ÷ 4 =	43 ÷ 4 =	41 ÷ 4 =	38 ÷ 4 =

go to page 43, A

A	$44 \div 4 =$	$46 \div 4 =$	$47 \div 4 =$	$12 \times 4 =$	$4 \times \ldots\ldots = 48$	$48 \div 4 =$
	$51 \div 4 =$	$37 \div 3 =$	$45 \div 4 =$	$50 \div 4 =$	$35 \div 3 =$	$41 \div 4 =$

go to page 41, A

B	$13 \div 6 =$	$17 \div 4 =$	$20 \div 6 =$	$18 \div 5 =$	$26 \div 6 =$	$28 \div 5 =$

5 or 6 correct, go to D; 4 or less, go to C

C	$12 \div 6 =$	$14 \div 6 =$	$17 \div 6 =$	$18 \div 6 =$	$20 \div 6 =$	$21 \div 6 =$
	$10 \div 5 =$	$13 \div 5 =$	$15 \div 5 =$	$17 \div 5 =$	$21 \div 5 =$	$23 \div 5 =$
	$24 \div 6 =$	$25 \div 6 =$	$28 \div 6 =$	$25 \div 5 =$	$27 \div 5 =$	$29 \div 5 =$
	$10 \div 6 =$	$19 \div 5 =$	$19 \div 6 =$	$24 \div 5 =$	$23 \div 6 =$	$29 \div 6 =$

go to page 44, A

D	$31 \div 5 =$	$33 \div 6 =$	$38 \div 6 =$	$44 \div 5 =$	$50 \div 6 =$	$48 \div 5 =$

5 or 6 correct, go to F; 4 or less, go to E

E	$30 \div 5 =$	$30 \div 6 =$	$31 \div 6 =$	$34 \div 5 =$	$35 \div 5 =$	$37 \div 5 =$
	$36 \div 6 =$	$37 \div 6 =$	$40 \div 6 =$	$40 \div 5 =$	$42 \div 5 =$	$41 \div 6 =$
	$47 \div 5 =$	$48 \div 6 =$	$50 \div 6 =$	$51 \div 6 =$	$51 \div 5 =$	$54 \div 5 =$

go to page 44, C

F	$55 \div 5 =$	$58 \div 5 =$	$57 \div 6 =$	$68 \div 6 =$	$73 \div 6 =$	$62 \div 5 =$

5 or 6 correct, go to page 45, A; 4 or less, go to G

G	$55 \div 5 =$	$57 \div 5 =$	$6 \times \ldots\ldots = 54$	$55 \div 6 =$	$58 \div 6 =$	$64 \div 6 =$
	$60 \div 5 =$	$63 \div 5 =$	$60 \div 6 =$	$64 \div 6 =$	$66 \div 6 =$	$69 \div 6 =$
	$71 \div 6 =$	$73 \div 6 =$	$72 \div 6 =$	$74 \div 6 =$	$64 \div 5 =$	$75 \div 6 =$

go to page 44, E

A

9 ÷ 6 =	8 ÷ 5 =	15 ÷ 6 =	21 ÷ 6 =	23 ÷ 5 =	28 ÷ 6 =

5 or 6 correct, go to page 43, D; 4 or less go to B

B

6 ÷ 5 =	9 ÷ 5 =	6 × ..... = 12	12 ÷ 6 =	13 ÷ 6 =	15 ÷ 6 =
8 ÷ 6 =	10 ÷ 5 =	12 ÷ 5 =	14 ÷ 5 =	18 ÷ 6 =	19 ÷ 6 =
15 ÷ 5 =	16 ÷ 5 =	19 ÷ 5 =	24 ÷ 6 =	25 ÷ 6 =	28 ÷ 6 =
20 ÷ 5 =	21 ÷ 5 =	24 ÷ 5 =	25 ÷ 5 =	27 ÷ 5 =	29 ÷ 5 =
14 ÷ 6 =	18 ÷ 5 =	21 ÷ 6 =	23 ÷ 5 =	27 ÷ 6 =	28 ÷ 5 =

go to page 43, D

C

30 ÷ 5 =	32 ÷ 6 =	37 ÷ 6 =	43 ÷ 5 =	46 ÷ 5 =	50 ÷ 6 =

5 or 6 correct, go to page 43, F; 4 or less, go to D

D

30 ÷ 6 =	31 ÷ 6 =	31 ÷ 5 =	35 ÷ 6 =	6 × ..... = 36	37 ÷ 6 =
39 ÷ 6 =	41 ÷ 6 =	5 × ..... = 35	36 ÷ 5 =	39 ÷ 5 =	6 × ..... = 42
44 ÷ 6 =	47 ÷ 6 =	45 ÷ 5 =	47 ÷ 5 =	49 ÷ 5 =	48 ÷ 6 =
50 ÷ 6 =	52 ÷ 6 =	50 ÷ 5 =	52 ÷ 5 =	53 ÷ 6 =	40 ÷ 6 =

go to page 43, F

E

55 ÷ 6 =	57 ÷ 5 =	54 ÷ 6 =	58 ÷ 6 =	62 ÷ 5 =	74 ÷ 6 =

5 or 6 correct, go to page 45, A; 4 or less, go to F

F

6 × ..... = 54	54 ÷ 6 =	55 ÷ 6 =	58 ÷ 6 =	60 ÷ 6 =	62 ÷ 6 =
55 ÷ 5 =	57 ÷ 5 =	59 ÷ 5 =	5 × ..... = 60	61 ÷ 5 =	64 ÷ 5 =
67 ÷ 6 =	69 ÷ 6 =	70 ÷ 6 =	71 ÷ 6 =	6 × ..... = 72	74 ÷ 6 =
58 ÷ 5 =	73 ÷ 6 =	57 ÷ 6 =	49 ÷ 5 =	64 ÷ 6 =	76 ÷ 6 =

go to page 45, A

A **Practice: change to shillings and pence:**

24d. = ... s. ..... d.	30d. = ... s. ..... d.	36d. = ... s. ..... d.	40d. = ... s. ..... d.	42d. = ... s. ..... d.
46d. = ... s. ..... d.	48d. = ... s. ..... d.	50d. = ... s. ..... d.	53d. = ... s. ..... d.	58d. = ... s. ..... d.
60d. = ... s. ..... d.	66d. = ... s. ..... d.	70d. = ... s. ..... d.	72d. = ... s. ..... d.	75d. = ... s. ..... d.
71d. = ... s. ..... d.	77d. = ... s. ..... d.	57d. = ... s. ..... d.	67d. = ... s. ..... d.	80d. = ... s. ..... d.

go to B

B

18d. = ... s. ..... d.	27d. = ... s.	34d. = ... s. ..... d.	41d. = ... s. ..... d.	45d. = ... s. ..... d.

5 correct, go to F; 4 or less, go to C

C

12d. = ... s. ..... d.	14d. = ... s. ..... d.	16d. = ... s. ..... d.	21d. = ... s. ..... d.	23d. = ... s. ..... d.
24 ÷ 12 =	29 ÷ 12 =	29d. = ... s. ..... d.	31d. = ... s. ..... d.	33d. = ... s. ..... d.
36 ÷ 12 =	40 ÷ 12 =	40d. = ... s. ..... d.	42d. = ... s. ..... d.	47d. = ... s. ..... d.
34d. = ... s. ..... d.	28d. = ... s. ..... d.	35d. = ... s. ..... d.	41d. = ... s. ..... d.	46d. = ... s. ..... d.

go to D

D

19d. = ... s. ..... d.	28d. = ... s. ..... d.	32d. = ... s. ..... d.	39d. = ... s. ..... d.	44d. = ... s. ..... d.

5 correct, go to F; 4 or less, go to E

E

12 × ..... = 24	24 ÷ 12 =	24d. = ... s. ..... d.	25d. = ... s. ..... d.	30d. = ... s. ..... d.
33d. = ... s. ..... d.	12 × ..... = 36	36 ÷ 12 =	36d. = ... s. ..... d.	38d. = ... s. ..... d.
42d. = ... s. ..... d.	43d. = ... s. ..... d.	45d. = ... s. ..... d.	41d. = ... s. ..... d.	47d. = ... s. ..... d.
22d. = ... s. ..... d.	34d. = ... s. ..... d.	40d. = ... s. ..... d.	44d. = ... s. ..... d.	46d. = ... s. ..... d.

go to F

F

49d. = ... s. ..... d.	55d. = ... s. ..... d.	64d. = ... s. ..... d.	72d. = ... s. ..... d.	78d. = ... s. ..... d.

5 correct, go to page 46, D; 4 or less, go to page 46, A

A

48 ÷ 12 =	48d. = ... s. ..... d.	50d. = ... s. ..... d.	53d. = ... s. ..... d.	57d. = ... s. ..... d.
60 ÷ 12 =	61d. = ... s. ..... d.	68d. = ... s. ..... d.	72 ÷ 12 =	72d. = ... s. ..... d.
74d. = ... s. ..... d.	77d. = ... s. ..... d.	55d. = ... s. ..... d.	67d. = ... s. ..... d.	81d. = ... s. ..... d.

go to B

B

51d. = ... s. ..... d.	62d. = ... s. ..... d.	69d. = ... s. ..... d.	73d. = ... s. ..... d.	78d. = ... s. ..... d.

5 correct, go to D; 4 or less, go to C

C

12 × ..... = 48	48 ÷ 12 =	48d. = ... s. ..... d.	49d. = ... s. ..... d.	51d. = ... s. ..... d.
55d. = ... s. ..... d.	12 × ..... = 60	60 ÷ 12 =	61d. = ... s. ..... d.	64d. = ... s. ..... d.
68d. = ... s. ..... d.	70d. = ... s. ..... d.	12 × ..... = 72	72 ÷ 12 =	72d. = ... s. ..... d.
73d. = ... s. ..... d.	76d. = ... s. ..... d.	67d. = ... s. ..... d.	58d. = ... s. ..... d.	79d. = ... s. ..... d.

go to D

D **Revision:**

41 − 36 = 46 − 36 = 51 − 48 = 57 − 48 = 66 − 60 = 76 − 72 = 81 − 72 =

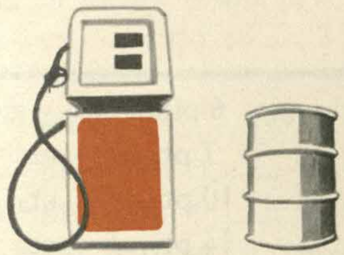
(2 × 12) + 6 =	(2 × 12) + 10 =	(3 × 12) + 6 =	(3 × 12) + 8 =
(4 × 12) + 3 =	(4 × 12) + 9 =	(4 × 12) + 11 =	(5 × 12) + 7 =
(6 × 12) + 5 =	(6 × 12) + 8 =	(6 × 12) + 11 =	(4 × 12) + 10 =
2 ft. 8 in. = ... in.	3 ft. 5 in. = ... in.	4 ft. 4 in. = ... in.	5 ft. 9 in. = ... in.
6 ft. 7 in. = ... in.	4 ft. 9 in. = ... in.	5 ft. 11 in. = ... in.	6 ft. 10 in. = ... in.
21 in. = ... ft. ..... in.	34 in. = ... ft. ..... in.	40 in. = ... ft. ..... in.	52 in. = ... ft. ..... in.
65 in. = ... ft. ..... in.	70 in. = ... ft. ..... in.	76 in. = ... ft. ..... in.	81 in. = ... ft. ..... in.

1s. 10d. = ... d.	2s. 7d. = ... d.	2s. 11d. = ... d.	3s. 7d. = ... d.	4s. 8d. = ... d.
3s. 11d. = ... d.	4s. 10d. = ... d.	5s. 10d. = ... d.	6s. 6d. = ... d.	6s. 9d. = ... d.

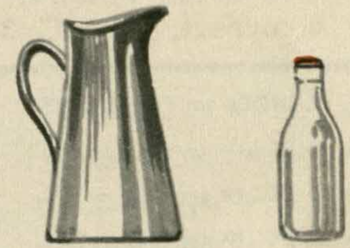
go to page 47

2 pints = 1 quart
4 quarts = 1 gallon
8 pints = 1 gallon

or	2 pt. = 1 qt.	and	1 qt. = 2 pt.
	4 qt. = 1 gal.		1 gal. = 4 qt.
	8 pt. = 1 gal.		1 gal. = 8 pt.



We measure large quantities in gallons.



We measure small quantities in quarts and pints.

Practice:

2 pints = ... quart	4 pints = ... quarts	1 quart = ... pints	2 quarts = ... pints
4 pints = ... quarts	6 pints = ... quarts	8 pints = ... quarts	3 quarts = ... pints
½ quart = ... pint	1 pint = ... quart	4 pints = ... quarts	6 pints = ... quarts
1 gallon = ... quarts	1 gallon = ... pints	2 gallons = ... pints	2 gallons = ... quarts
½ gallon = ... quarts	1½ gal. = ... quarts	½ gallon = ... pints	1½ gal. = ... pints

8 pt. = ... gal.	4 pt. = ... gal.	4 qt. = ... gal.	2 qt. = ... gal.	6 qt. = ... gal.
½ gal. = ... qt.	½ gal. = ... pt.	4 pt. = ... gal.	8 qt. = ... gal.	8 pt. = ... gal.
3 gal. = ... qt.	3 gal. = ... pt.	¼ gal. = ... pt.	¼ gal. = ... qt.	12 pt. = ... gal.

Change to pints:

2 gal. ½ gal. 2 qt. 5 qt. 1½ gal. 2½ gal. 7 qt.
1 qt. 1 pt. 3 qt. 1 pt. 6 qt. 1 pt. 1 gal. 1 pt. 5 qt. 1 pt.

Change to quarts:

6 pt. 7 pt. 12 pt. 15 pt. 2 gal. 1½ gal. 10 gal.
1 gal. 1 qt. 2 gal. 2 qt. 1 gal. 3 qt. 3 gal. 2 qt. 8 gal. 3 qt.

Change to gallons, quarts and pints:

5 pt. 5 qt. 7 qt. 11 pt. 21 pt.

go to page 48, A

A 5 pt. = ... qt. ..... pt. 8 pt. = ... qt. ..... pt. 11 pt. = ... qt. ..... pt. 15 pt. = ... qt. ..... pt.

4 correct, go to C; 3 or less, go to B

B

2 pints = ... quart	4 pints = ... quarts	1 quart = ... pints	6 pints = ... quarts
4 pt. = ... qt. ..... pt.	5 pt. = ... qt. ..... pt.	6 pt. = ... qt. ..... pt.	7 pt. = ... qt. ..... pt.
8 pt. = ... qt. ..... pt.	7 pt. = ... qt. ..... pt.	9 pt. = ... qt. ..... pt.	10 pt. = ... qt. ..... pt.
5 pt. = ... qt. ..... pt.	9 pt. = ... qt. ..... pt.	13 pt. = ... qt. ..... pt.	14 pt. = ... qt. ..... pt.
6 pt. = ... qt. ..... pt.	8 pt. = ... qt. ..... pt.	11 pt. = ... qt. ..... pt.	16 pt. = ... qt. ..... pt.

go to C

C 2 qt. = ... pt. 3 qt. 1 pt. = ... pt. 4 qt. 0 pt. = ... pt. 5 qt. 1 pt. = ... pt. 9 qt. 1 pt. = ... pt.

5 correct, go to E; 4 or less, go to D

D

1 qt. = ... pt.	1 qt. 1 pt. = ... pt.	2 qt. 0 pt. = ... pt.	2 qt. 1 pt. = ... pt.
2 qt. 1 pt. = ... pt.	3 qt. 0 pt. = ... pt.	4 qt. 1 pt. = ... pt.	3 qt. 0 pt. = ... pt.
3 qt. 1 pt. = ... pt.	4 qt. 0 pt. = ... pt.	5 qt. 1 pt. = ... pt.	6 qt. 1 pt. = ... pt.
4 qt. 1 pt. = ... pt.	6 qt. 1 pt. = ... pt.	7 qt. 1 pt. = ... pt.	8 qt. 1 pt. = ... pt.

go to D

E 5 qt. = ... gal. ..... qt. 7 qt. = ... gal. ..... qt. 10 qt. = ... gal. ..... qt. 18 qt. = ... gal. ..... qt.

4 correct, go to page 49, A; 3 or less, go to F

F

4 quarts = ... gallon	5 quarts = ... gallon ..... quart	7 qt. = ... gal. ..... qt.	8 qt. = ... gal.
5 qt. = ... gal. ..... qt.	6 qt. = ... gal. ..... qt.	9 qt. = ... gal. ..... qt.	11 qt. = ... gal. ..... qt.
8 qt. = ... gal. ..... qt.	7 qt. = ... gal. ..... qt.	10 qt. = ... gal. ..... qt.	12 qt. = ... gal. ..... qt.
15 qt. = ... gal. ..... qt.	19 qt. = ... gal. ..... qt.	16 qt. = ... gal. ..... qt.	20 qt. = ... gal. ..... qt.

go to page 49, A

A

1 gal. 2 qt. = ... qt. 2 gal. 1 qt. = ... qt. 3 gal. 3 qt. = ... qt. 7 gal. 2 qt. = ... qt.

4 correct go to C; 3 or less, go to B

B

1 gallon = ... quarts	1 gal. 1 qt. = ... qt.	1 gal. 3 qt. = ... qt.	2 gal. 0 qt. = ... qt.
2 gal. 2 qt. = ... qt.	3 gal. 0 qt. = ... qt.	3 gal. 2 qt. = ... qt.	4 gal. 0 qt. = ... qt.
4 gal. 3 qt. = ... qt.	5 gal. 1 qt. = ... qt.	5 gal. 3 qt. = ... qt.	7 gal. 0 qt. = ... qt.
8 gal. 0 qt. = ... qt.	8 gal. 2 qt. = ... qt.	9 gal. 3 qt. = ... qt.	10 gal. 2 qt. = ... qt.

go to C

C

Practice:

10 × 2 =	10 × 4 =	10 × 5 =	50 ÷ 10 =	40 ÷ 10 =	30 ÷ 10 =
2 × 7 =	7 × 2 =	14 ÷ 2 =	14 ÷ 7 =	3 × 7 =	7 × 3 =
14 ÷ 7 =	21 ÷ 7 =	60 ÷ 10 =	2 × 8 =	8 × 2 =	16 ÷ 8 =
3 × 8 =	8 × 3 =	24 ÷ 8 =	25 ÷ 8 =	22 ÷ 7 =	24 ÷ 8 =
26 ÷ 8 =	2 × 9 =	9 × 2 =	18 ÷ 9 =	20 ÷ 9 =	19 ÷ 9 =
9 × 3 =	3 × 9 =	27 ÷ 9 =	28 ÷ 9 =	30 ÷ 9 =	15 ÷ 7 =
7 × 4 =	28 ÷ 7 =	29 ÷ 7 =	31 ÷ 7 =	8 × 4 =	4 × 8 =
33 ÷ 8 =	36 ÷ 8 =	50 ÷ 10 =	53 ÷ 10 =	9 × 4 =	37 ÷ 9 =
29 ÷ 9 =	38 ÷ 9 =	7 × 5 =	35 ÷ 7 =	36 ÷ 7 =	40 ÷ 7 =
90 ÷ 9 =	91 ÷ 10 =	91 ÷ 9 =	8 × 5 =	40 ÷ 8 =	42 ÷ 8 =
9 × 5 =	45 ÷ 9 =	47 ÷ 9 =	50 ÷ 9 =	6 × 7 =	7 × 6 =
43 ÷ 7 =	44 ÷ 9 =	44 ÷ 8 =	44 ÷ 7 =	9 × 6 =	6 × 9 =
54 ÷ 9 =	56 ÷ 9 =	83 ÷ 10 =	60 ÷ 9 =	8 × 6 =	48 ÷ 8 =
51 ÷ 8 =	32 ÷ 7 =	41 ÷ 9 =	45 ÷ 7 =	52 ÷ 8 =	70 ÷ 10 =
53 ÷ 6 =	53 ÷ 8 =	59 ÷ 6 =	59 ÷ 9 =	77 ÷ 10 =	61 ÷ 9 =

go to page 50, A

A **Against each number write the nearest number below it which can be divided exactly by 7:**

15	17	20	22	25	30	34	40	43	45	33	48

Against each number write the nearest number below it which can be divided exactly by 8:

13	18	21	26	31	33	38	42	49	51	36	53

Against each number write the nearest number below it which can be divided exactly by 9:

14	20	25	30	34	37	41	44	47	51	60	62

go to B

B

16 ÷ 8 =	14 ÷ 7 =	20 ÷ 8 =	17 ÷ 7 =	21 ÷ 7 =	22 ÷ 9 =

5 or 6 correct, go to D; 4 or less, go to C

C

14 ÷ 2 =	14 ÷ 7 =	15 ÷ 7 =	16 ÷ 7 =	18 ÷ 7 =	19 ÷ 7 =
3 × 7 =	21 ÷ 7 =	22 ÷ 7 =	19 ÷ 8 =	23 ÷ 7 =	18 ÷ 8 =
17 ÷ 7 =	19 ÷ 7 =	2 × 9 =	18 ÷ 9 =	19 ÷ 9 =	21 ÷ 9 =
20 ÷ 7 =	17 ÷ 8 =	21 ÷ 8 =	22 ÷ 7 =	24 ÷ 7 =	23 ÷ 9 =

go to page 52, A

D

28 ÷ 7 =	24 ÷ 8 =	27 ÷ 8 =	31 ÷ 7 =	27 ÷ 9 =	34 ÷ 9 =

5 or 6 correct, go to page 51, A; 4 or less, go to E

E

3 × 8 =	8 × 3 =	24 ÷ 8 =	25 ÷ 8 =	29 ÷ 8 =	3 × 10 =
32 ÷ 10 =	42 ÷ 10 =	4 × 7 =	28 ÷ 7 =	30 ÷ 7 =	31 ÷ 7 =
10 × 5 =	51 ÷ 10 =	61 ÷ 10 =	9 × 3 =	3 × 9 =	27 ÷ 9 =
31 ÷ 9 =	33 ÷ 9 =	8 × 4 =	32 ÷ 8 =	33 ÷ 8 =	35 ÷ 8 =
38 ÷ 8 =	25 ÷ 7 =	33 ÷ 10 =	31 ÷ 8 =	33 ÷ 7 =	35 ÷ 9 =

go to page 52, C

A

36 ÷ 9 =	41 ÷ 9 =	36 ÷ 7 =	63 ÷ 10 =	42 ÷ 8 =	41 ÷ 7 =

5 or 6 correct, go to C; 4 or less, go to B

B

9 × = 36	36 ÷ 9 =	37 ÷ 9 =	40 ÷ 9 =	36 ÷ 7 =	41 ÷ 7 =
60 ÷ 10 =	62 ÷ 10 =	41 ÷ 9 =	44 ÷ 9 =	40 ÷ 8 =	42 ÷ 8 =
50 ÷ 10 =	55 ÷ 10 =	7 × 6 =	7 × = 42	42 ÷ 7 =	44 ÷ 7 =
40 ÷ 7 =	43 ÷ 8 =	67 ÷ 10 =	46 ÷ 7 =	45 ÷ 8 =	48 ÷ 7 =

go to 52, E

C

45 ÷ 9 =	51 ÷ 9 =	50 ÷ 8 =	54 ÷ 9 =	61 ÷ 9 =	86 ÷ 10 =

5 or 6 correct, go to E; 4 or less, go to D

D

5 × 9 =	9 × = 45	45 ÷ 9 =	46 ÷ 9 =	50 ÷ 9 =	52 ÷ 9 =
6 × 8 =	8 × 6 =	48 ÷ 8 =	50 ÷ 8 =	52 ÷ 8 =	55 ÷ 8 =
90 ÷ 10 =	92 ÷ 10 =	82 ÷ 10 =	77 ÷ 10 =	96 ÷ 10 =	6 × 9 =
54 ÷ 9 =	55 ÷ 9 =	59 ÷ 9 =	60 ÷ 9 =	61 ÷ 9 =	73 ÷ 10 =
51 ÷ 9 =	61 ÷ 9 =	51 ÷ 8 =	99 ÷ 10 =	53 ÷ 9 =	54 ÷ 8 =

go to page 53, B

E **Complete by writing the answers below the line:**

7 ×	7	8	9	10	11	12

go to F

F

7 × 7 =	7 × 8 =	8 × 7 =	7 × 9 =	9 × 7 =	7 × 6 =	7 × 7 =
7 × 9 =	7 × 10 =	7 × 9 =	9 × 7 =	7 × 8 =	8 × 7 =	7 × 8 =
7 × 8 =	7 × 11 =	11 × 7 =	7 × 11 =	7 × 9 =	7 × 12 =	12 × 7 =
7 × 12 =	7 × 9 =	7 × 12 =	7 × 10 =	12 × 7 =	7 × 8 =	7 × 11 =

go to page 53, D

A	14 ÷ 7 =	16 ÷ 7 =	16 ÷ 8 =	21 ÷ 7 =	19 ÷ 8 =	21 ÷ 9 =

5 or 6 correct, go to page 50, D; 4 or less, go to B

B	15 − 14 =	17 − 14 =	20 − 14 =	17 − 16 =	19 − 16 =	23 − 16 =
	19 − 18 =	21 − 18 =	23 − 18 =	24 − 18 =	26 − 18 =	26 − 21 =
	2 × 7 =	7 × 2 =	14 ÷ 2 =	14 ÷ 7 =	15 ÷ 7 =	17 ÷ 7 =
	3 × 7 =	21 ÷ 7 =	21 ÷ 3 =	22 ÷ 7 =	24 ÷ 7 =	23 ÷ 7 =
	2 × 8 =	16 ÷ 8 =	17 ÷ 8 =	19 ÷ 8 =	21 ÷ 8 =	2 × 9 =
	19 ÷ 9 =	20 ÷ 9 =	22 ÷ 9 =	18 ÷ 8 =	19 ÷ 7 =	23 ÷ 9 =
	23 ÷ 9 =	25 ÷ 7 =	20 ÷ 8 =	24 ÷ 9 =	22 ÷ 8 =	26 ÷ 7 =

go to page 50, D

C	24 ÷ 8 =	26 ÷ 8 =	27 ÷ 9 =	28 ÷ 7 =	30 ÷ 9 =	31 ÷ 7 =

5 or 6 correct, go to page 51, A; 4 or less, go to D

D	30 − 27 =	30 − 24 =	31 − 24 =	31 − 28 =	31 − 27 =	33 − 27 =
	34 − 28 =	33 − 30 =	28 − 20 =	47 − 40 =	36 − 32 =	33 − 28 =
	8 × 3 =	3 × 8 =	8 × = 24	24 ÷ 8 =	25 ÷ 8 =	27 ÷ 8 =
	3 × 9 =	9 × = 27	27 ÷ 9 =	28 ÷ 9 =	30 ÷ 9 =	32 ÷ 9 =
	23 ÷ 10 =	4 × 7 =	7 × = 28	28 ÷ 7 =	30 ÷ 7 =	31 ÷ 7 =
	32 ÷ 10 =	8 × 4 =	4 × 8 =	8 × = 32	32 ÷ 8 =	34 ÷ 8 =
	31 ÷ 9 =	41 ÷ 10 =	33 ÷ 7 =	38 ÷ 8 =	34 ÷ 9 =	44 ÷ 10 =

go to page 51, A

E	35 ÷ 7 =	38 ÷ 7 =	37 ÷ 9 =	50 ÷ 10 =	43 ÷ 7 =	45 ÷ 8 =

5 or 6 correct, go to page 51, C; 4 or less, go to page 53, A

A

54 − 50 =	77 − 70 =	40 − 35 =	41 − 35 =	43 − 42 =	46 − 42 =
46 − 40 =	39 − 36 =	47 − 42 =	40 − 36 =	42 − 36 =	44 − 36 =
7 × = 35	35 ÷ 7 =	36 ÷ 7 =	38 ÷ 7 =	40 ÷ 7 =	4 × 9 =
9 × 4 =	36 ÷ 9 =	37 ÷ 9 =	40 ÷ 9 =	41 ÷ 9 =	44 ÷ 9 =
10 × = 60	60 ÷ 10 =	62 ÷ 10 =	52 ÷ 10 =	72 ÷ 10 =	66 ÷ 10 =
5 × 8 =	8 × = 40	41 ÷ 8 =	42 ÷ 8 =	46 ÷ 8 =	6 × 7 =
7 × = 42	42 ÷ 7 =	43 ÷ 7 =	45 ÷ 7 =	46 ÷ 7 =	48 ÷ 7 =
44 ÷ 7 =	34 ÷ 9 =	42 ÷ 9 =	41 ÷ 7 =	47 ÷ 8 =	57 ÷ 10 =

go to page 51, C

B

48 ÷ 8 =	46 ÷ 9 =	51 ÷ 9 =	51 ÷ 8 =	88 ÷ 10 =	61 ÷ 9 =

5 or 6 correct, go to page 51, E; 4 or less, go to C

C

50 − 48 =	51 − 48 =	53 − 48 =	84 − 80 =	93 − 90 =	50 − 45 =
53 − 45 =	55 − 48 =	98 − 90 =	56 − 54 =	60 − 54 =	62 − 54 =
9 × 5 =	5 × 9 =	9 × = 45	45 ÷ 9 =	46 ÷ 9 =	49 ÷ 9 =
6 × 8 =	8 × = 48	48 ÷ 8 =	50 ÷ 8 =	52 ÷ 8 =	82 ÷ 10 =
9 × 6 =	6 × 9 =	9 × = 54	54 ÷ 9 =	56 ÷ 9 =	60 ÷ 9 =
44 ÷ 9 =	51 ÷ 9 =	61 ÷ 9 =	35 ÷ 8 =	45 ÷ 8 =	52 ÷ 8 =
41 ÷ 7 =	53 ÷ 8 =	89 ÷ 10 =	62 ÷ 9 =	48 ÷ 7 =	97 ÷ 10 =

go to page 51, E

D

7 × 8 =	7 × 10 =	7 × 7 =	7 × 9 =	7 × 12 =	7 × 9 =	7 × 11 =
11 × 7 =	10 × 7 =	9 × 7 =	7 × 8 =	8 × 7 =	7 × 11 =	7 × 8 =
7 × 9 =	7 × 12 =	12 × 7 =	7 × 11 =	7 × 9 =	7 × 7 =	7 × 12 =

go to page 54, A

A 7 × 10 = 7 × 7 = 7 × 12 = 7 × 6 = 7 × 8 = 7 × 11 = 7 × 9 =

6 or 7 correct, go to C; 5 or less, go to B

B

7 × 5 =	7 × 6 =	7 × 7 =	7 × 8 =	7 × 7 =	7 × 8 =	7 × 8 =
7 × 7 =	7 × 8 =	7 × 9 =	7 × 10 =	7 × 8 =	7 × 9 =	7 × 7 =
7 × 10 =	7 × 11 =	7 × 12 =	7 × 10 =	7 × 11 =	7 × 12 =	7 × 12 =
7 × 12 =	7 × 7 =	7 × 9 =	7 × 11 =	7 × 9 =	7 × 10 =	7 × 7 =
7 × 8 =	7 × 12 =	7 × 11 =	7 × 9 =	7 × 7 =	7 × 8 =	7 × 12 =

go to page 56, A

C **Complete by writing the answers below the line:**

8 ×	7	8	9	10	11	12

go to D

D

8 × 7 =	7 × 8 =	8 × 8 =	8 × 9 =	8 × 9 =	8 × 8 =	8 × 10 =
8 × 11 =	8 × 12 =	8 × 8 =	8 × 7 =	8 × 9 =	8 × 10 =	8 × 11 =
8 × 12 =	8 × 9 =	8 × 7 =	8 × 12 =	8 × 8 =	8 × 12 =	8 × 12 =
8 × 9 =	8 × 12 =	8 × 11 =	8 × 10 =	8 × 12 =	8 × 11 =	8 × 9 =
8 × 7 =	8 × 8 =	8 × 10 =	8 × 12 =	8 × 9 =	8 × 8 =	8 × 12 =
8 × 11 =	8 × 12 =	8 × 7 =	8 × 9 =	8 × 8 =	8 × 12 =	8 × 9 =

go to E

E **Change to inches:**

1 ft. 7 in.	2 ft. 5 in.	2 ft. 10 in.	3 ft. 8 in.	4 ft. 11 in.
5 ft. 10 in.	6 ft. 4 in.	6 ft. 9 in.	7 ft. 0 in.	7 ft. 3 in.
8 ft. 0 in.	8 ft. 3 in.	7 ft. 5 in.	8 ft. 7 in.	7 ft. 7 in.

go to page 56, C

A **Complete by writing the answers below the line:**

9 ×	7	8	9	10	11	12

go to B

B

7 × 9 =	9 × 7 =	8 × 9 =	9 × 7 =	9 × 8 =	9 × 7 =
9 × 8 =	9 × 9 =	9 × 10 =	9 × 10 =	9 × 9 =	9 × 8 =
9 × 11 =	9 × 11 =	11 × 9 =	10 × 9 =	10 × 8 =	11 × 8 =
9 × 12 =	12 × 9 =	9 × 12 =	9 × 9 =	9 × 7 =	7 × 9 =
9 × 9 =	9 × 12 =	9 × 11 =	9 × 12 =	9 × 8 =	9 × 9 =
9 × 12 =	9 × 7 =	9 × 9 =	9 × 10 =	9 × 12 =	9 × 11 =

go to page 56, E

C

49 + 1 =	49 + 2 =	49 + 4 =	49 + 7 =	56 + 1 =	56 + 4 =
56 + 7 =	63 + 2 =	63 + 6 =	63 + 8 =	81 + 8 =	81 + 10 =
77 + 3 =	77 + 4 =	66 + 6 =	66 + 9 =	88 + 6 =	96 + 6 =

go to D

D **Complete by writing the answers below the line:**

11 ×	7	8	9	10	11	12

go to E

E

7 × 11 =	11 × 7 =	11 × 8 =	11 × 9 =	10 × 11 =	11 × 10 =
11 × 10 =	11 × 11 =	11 × 11 =	11 × 12 =	11 × 11 =	11 × 12 =
8 × 11 =	11 × 9 =	11 × 8 =	7 × 11 =	11 × 7 =	11 × 10 =
11 × 11 =	11 × 12 =	12 × 11 =	12 × 10 =	12 × 11 =	11 × 11 =
11 × 12 =	11 × 11 =	11 × 8 =	11 × 11 =	11 × 12 =	11 × 10 =

go to page 57, B

A

7 × 7 =	7 × 10 =	7 × 8 =	8 × 7 =	7 × 11 =	7 × 9 =	7 × 12 =

6 or 7 correct, go to page 54, C; 5 or less, go to B

B

7 × 5 =	7 × 6 =	7 × 7 =	7 × 6 =	7 × 7 =	7 × 8 =	7 × 9 =
7 × 7 =	7 × 8 =	7 × 8 =	7 × 9 =	7 × 9 =	7 × 10 =	7 × 8 =
7 × 7 =	7 × 8 =	7 × 10 =	7 × 11 =	7 × 11 =	7 × 9 =	7 × 11 =
7 × 10 =	7 × 11 =	7 × 12 =	7 × 12 =	12 × 7 =	11 × 7 =	10 × 7 =
7 × 7 =	7 × 8 =	8 × 7 =	7 × 9 =	11 × 7 =	9 × 7 =	12 × 7 =
7 × 12 =	7 × 9 =	7 × 12 =	7 × 7 =	7 × 10 =	8 × 7 =	7 × 11 =
8 × 7 =	7 × 7 =	9 × 7 =	7 × 11 =	12 × 7 =	7 × 9 =	7 × 12 =

go to page 54, C

C

8 × 7 =	8 × 9 =	8 × 10 =	9 × 8 =	8 × 8 =	8 × 12 =	8 × 11 =

6 or 7 correct, go to page 55, A; 5 or less, go to D

D

7 × 8 =	8 × 7 =	8 × 8 =	8 × 7 =	8 × 8 =	8 × 9 =	8 × 9 =
8 × 9 =	8 × 10 =	8 × 11 =	8 × 8 =	8 × 9 =	8 × 9 =	8 × 10 =
8 × 10 =	8 × 11 =	11 × 8 =	8 × 12 =	12 × 8 =	8 × 12 =	8 × 9 =
8 × 7 =	7 × 8 =	8 × 9 =	9 × 8 =	8 × 8 =	8 × 11 =	11 × 8 =
8 × 10 =	10 × 8 =	8 × 7 =	8 × 12 =	8 × 11 =	12 × 8 =	8 × 12 =
8 × 11 =	8 × 12 =	8 × 12 =	8 × 7 =	8 × 10 =	8 × 8 =	8 × 9 =
8 × 9 =	8 × 10 =	7 × 8 =	8 × 8 =	11 × 8 =	9 × 8 =	12 × 8 =

go to page 58, A

E

9 × 10 =	9 × 7 =	9 × 9 =	9 × 11 =	9 × 8 =	7 × 9 =	12 × 9 =

6 or 7 correct, go to page 55, C; 5 or less, go to page 57, A

A

5 × 9 =	9 × 5 =	9 × 6 =	9 × 7 =	7 × 9 =	9 × 7 =
9 × 8 =	9 × 9 =	9 × 7 =	9 × 9 =	9 × 9 =	9 × 8 =
9 × 9 =	8 × 9 =	9 × 8 =	9 × 7 =	9 × 8 =	9 × 9 =
9 × 10 =	9 × 11 =	9 × 10 =	9 × 11 =	9 × 12 =	9 × 12 =
9 × 11 =	9 × 12 =	12 × 9 =	11 × 9 =	9 × 11 =	9 × 9 =
9 × 7 =	9 × 10 =	9 × 12 =	9 × 12 =	9 × 10 =	9 × 12 =

go to page 58, C

B

11 × 7 =	11 × 9 =	11 × 8 =	12 × 11 =	11 × 11 =	11 × 10 =

5 or 6 correct, go to D; 4 or less, go to C

C

11 × 7 =	11 × 8 =	11 × 9 =	11 × 10 =	11 × 11 =	11 × 12 =
11 × 8 =	11 × 10 =	11 × 11 =	11 × 12 =	11 × 12 =	11 × 11 =
11 × 9 =	11 × 12 =	11 × 12 =	11 × 11 =	11 × 8 =	11 × 10 =
11 × 12 =	11 × 11 =	11 × 9 =	11 × 7 =	11 × 11 =	11 × 12 =
11 × 11 =	11 × 12 =	11 × 12 =	11 × 11 =	11 × 12 =	11 × 10 =

go to page 58, E

D **Complete by writing the answers below the line:**

	7	8	9	10	11	12
12 ×						

go to E

E

7 × 12 =	12 × 7 =	8 × 12 =	12 × 8 =	12 × 7 =	12 × 8 =
9 × 12 =	12 × 9 =	11 × 12 =	12 × 11 =	12 × 12 =	12 × 12 =
12 × 12 =	12 × 11 =	12 × 7 =	12 × 12 =	12 × 8 =	12 × 10 =
12 × 9 =	12 × 8 =	12 × 10 =	12 × 11 =	12 × 12 =	12 × 12 =

go to page 59, B

A	8 × 6 =	8 × 8 =	8 × 9 =	8 × 7 =	8 × 11 =	8 × 10 =	8 × 12 =

5, 6 or 7 correct, go to page 55, A; 4 or less, go to B

B	5 × 8 =	8 × 5 =	8 × 6 =	8 × 7 =	8 × 8 =	8 × 7 =	8 × 8 =
	8 × 7 =	8 × 8 =	8 × 9 =	9 × 8 =	7 × 8 =	8 × 8 =	8 × 7 =
	8 × 9 =	8 × 7 =	7 × 8 =	8 × 9 =	8 × 8 =	8 × 9 =	8 × 8 =
	8 × 10 =	8 × 11 =	11 × 8 =	12 × 8 =	8 × 12 =	12 × 8 =	8 × 11 =
	8 × 12 =	8 × 10 =	8 × 8 =	8 × 11 =	11 × 8 =	8 × 9 =	8 × 12 =
	8 × 7 =	8 × 11 =	8 × 9 =	8 × 12 =	8 × 10 =	8 × 8 =	8 × 11 =
	8 × 12 =	8 × 8 =	8 × 7 =	8 × 11 =	8 × 12 =	8 × 10 =	8 × 9 =

go to page 55, A

C	7 × 9 =	9 × 7 =	9 × 9 =	9 × 10 =	9 × 12 =	9 × 8 =	9 × 11 =

5, 6 or 7 correct, go to page 55, C; 4 or less, go to D

D	6 × 9 =	9 × 6 =	9 × 7 =	9 × 8 =	9 × 7 =	9 × 8 =	9 × 8 =
	9 × 7 =	9 × 8 =	9 × 9 =	9 × 9 =	9 × 10 =	9 × 9 =	9 × 10 =
	9 × 8 =	9 × 9 =	9 × 11 =	9 × 11 =	9 × 9 =	9 × 11 =	9 × 12 =
	9 × 12 =	9 × 12 =	9 × 10 =	9 × 12 =	9 × 11 =	9 × 12 =	9 × 9 =
	9 × 8 =	9 × 7 =	9 × 11 =	9 × 10 =	9 × 12 =	9 × 9 =	9 × 12 =
	9 × 12 =	9 × 8 =	9 × 12 =	9 × 7 =	9 × 9 =	9 × 12 =	9 × 8 =
	9 × 7 =	9 × 10 =	7 × 9 =	9 × 11 =	9 × 12 =	8 × 9 =	9 × 9 =

go to page 55, C

E	11 × 10 =	11 × 7 =	11 × 9 =	11 × 12 =	11 × 8 =	11 × 11 =	12 × 11 =

5, 6 or 7 correct, go to page 57, D; 4 or less, go to page 59, A

A

7 × 11 =	8 × 11 =	9 × 11 =	11 × 7 =	11 × 8 =	11 × 9 =
11 × 8 =	11 × 9 =	11 × 7 =	11 × 10 =	11 × 11 =	11 × 11 =
11 × 10 =	11 × 11 =	11 × 11 =	11 × 12 =	11 × 12 =	11 × 11 =
11 × 11 =	11 × 12 =	11 × 7 =	11 × 11 =	11 × 8 =	11 × 12 =
11 × 9 =	11 × 10 =	11 × 11 =	11 × 12 =	11 × 12 =	11 × 11 =
11 × 11 =	11 × 12 =	11 × 12 =	11 × 8 =	11 × 10 =	11 × 12 =

go to page 57, D

B

12 × 9 =	12 × 7 =	12 × 10 =	12 × 11 =	12 × 8 =	12 × 12 =

5 or 6 correct, go to D; 4 or less, go to C

C

5 × 12 =	6 × 12 =	7 × 12 =	12 × 7 =	12 × 8 =	9 × 12 =
12 × 7 =	12 × 8 =	12 × 7 =	12 × 9 =	12 × 10 =	10 × 12 =
11 × 12 =	12 × 11 =	12 × 12 =	12 × 12 =	12 × 7 =	12 × 12 =
12 × 10 =	12 × 12 =	12 × 9 =	12 × 11 =	12 × 12 =	12 × 9 =
12 × 12 =	12 × 7 =	12 × 11 =	12 × 12 =	12 × 11 =	12 × 11 =

go to page 60, A

D **Practice:**

11 × 4 =	44 ÷ 11 =	45 ÷ 11 =	7 × 11 =	77 ÷ 11 =	80 ÷ 11 =
9 × 11 =	11 × 9 =	99 ÷ 11 =	100 ÷ 11 =	101 ÷ 11 =	103 ÷ 11 =
8 × 11 =	90 ÷ 11 =	95 ÷ 11 =	86 ÷ 11 =	6 × 12 =	79 ÷ 12 =
12 × 7 =	7 × 12 =	84 ÷ 7 =	85 ÷ 12 =	87 ÷ 12 =	90 ÷ 12 =
8 × 12 =	96 ÷ 12 =	98 ÷ 12 =	100 ÷ 12 =	101 ÷ 12 =	103 ÷ 12 =
12 × 9 =	108 ÷ 12 =	109 ÷ 12 =	111 ÷ 12 =	114 ÷ 12 =	105 ÷ 12 =

go to page 60, C

A

12 × 7 =	12 × 10 =	12 × 9 =	12 × 11 =	12 × 8 =	12 × 12 =

5 or 6 correct, go to page 59, D; 4 or less, go to B

B

5 × 12 =	6 × 12 =	12 × 6 =	7 × 12 =	12 × 7 =	12 × 8 =
12 × 7 =	12 × 8 =	12 × 9 =	12 × 9 =	12 × 8 =	12 × 9 =
12 × 8 =	12 × 9 =	12 × 7 =	12 × 9 =	12 × 10 =	12 × 10 =
12 × 11 =	12 × 10 =	12 × 11 =	12 × 10 =	12 × 11 =	12 × 11 =
12 × 10 =	12 × 11 =	12 × 12 =	12 × 12 =	12 × 9 =	12 × 12 =
12 × 8 =	12 × 7 =	12 × 11 =	12 × 8 =	12 × 12 =	12 × 11 =
12 × 12 =	12 × 11 =	12 × 9 =	12 × 12 =	12 × 11 =	12 × 12 =

go to page 59, D

C

Against each number write the nearest number below it which can be divided exactly by 11:

24 30 35 60 72 84 94 103 111 120 124

Against each number write the nearest number below it which can be divided exactly by 12:

22 40 66 86 91 100 110 115 124 136 141

go to D

D

23 ÷ 11 =	36 ÷ 11 =	30 ÷ 12 =	43 ÷ 12 =	70 ÷ 11 =	70 ÷ 12 =

5 or 6 correct, go to page 61, A; 4 or less, go to E

E

13 ÷ 12 =	15 ÷ 12 =	20 ÷ 12 =	22 ÷ 12 =	17 ÷ 11 =	21 ÷ 11 =
26 ÷ 12 =	31 ÷ 12 =	31 ÷ 11 =	34 ÷ 11 =	38 ÷ 12 =	42 ÷ 12 =
46 ÷ 12 =	50 ÷ 11 =	52 ÷ 12 =	55 ÷ 11 =	57 ÷ 12 =	60 ÷ 11 =
70 ÷ 12 =	70 ÷ 11 =	85 ÷ 11 =	72 ÷ 12 =	62 ÷ 11 =	66 ÷ 12 =
42 ÷ 11 =	56 ÷ 12 =	48 ÷ 11 =	59 ÷ 11 =	68 ÷ 12 =	71 ÷ 12 =

go to page 62, A

A **Practice:**

7 × 11 =	77 ÷ 11 =	80 ÷ 11 =	70 ÷ 11 =	75 ÷ 11 =	85 ÷ 11 =
90 ÷ 11 =	95 ÷ 11 =	7 × 12 =	84 ÷ 12 =	86 ÷ 12 =	90 ÷ 12 =
8 × 12 =	12 × 8 =	96 ÷ 12 =	100 ÷ 12 =	102 ÷ 12 =	105 ÷ 12 =
99 ÷ 11 =	101 ÷ 11 =	104 ÷ 11 =	107 ÷ 11 =	9 × 12 =	109 ÷ 12 =
111 ÷ 12 =	114 ÷ 12 =	117 ÷ 12 =	10 × 12 =	121 ÷ 12 =	127 ÷ 12 =
124 ÷ 11 =	130 ÷ 11 =	133 ÷ 11 =	140 ÷ 11 =	132 ÷ 12 =	140 ÷ 12 =
144 ÷ 12 =	147 ÷ 12 =	141 ÷ 11 =	131 ÷ 11 =	141 ÷ 12 =	146 ÷ 12 =

go to page 62, C

B **Change into feet and inches:**

50 in. = ... ft. ..... in.	57 in. = ... ft. ..... in.	63 in. = ... ft. ..... in.	70 in. = ... ft. ..... in.
75 in. = ... ft. ..... in.	81 in. = ... ft. ..... in.	87 in. = ... ft. ..... in.	92 in. = ... ft. ..... in.
95 in. = ... ft. ..... in.	100 in. = ... ft. ..... in.	103 in. = ... ft. ..... in.	108 in. = ... ft. ..... in.
112 in. = ... ft. ..... in.	118 in. = ... ft. ..... in.	122 in. = ... ft. ..... in.	130 in. = ... ft. ..... in.
136 in. = ... ft. ..... in.	141 in. = ... ft. ..... in.	144 in. = ... ft. ..... in.	151 in. = ... ft. ..... in.
119 in. = ... ft. ..... in.	143 in. = ... ft. ..... in.	138 in. = ... ft. ..... in.	148 in. = ... ft. ..... in.

go to C

C **Change into inches:**

3 ft. 9 in.	4 ft. 3 in.	4 ft. 10 in.	5 ft. 10 in.	6 ft. 5 in.
6 ft. 11 in.	7 ft. 6 in.	7 ft. 9 in.	8 ft. 0 in.	8 ft. 5 in.
8 ft. 9 in.	9 ft. 0 in.	9 ft. 2 in.	9 ft. 5 in.	9 ft. 8 in.
10 ft. 1 in.	10 ft. 10 in.	11 ft. 5 in.	11 ft. 8 in.	11 ft. 10 in.
9 ft. 10 in.	8 ft. 11 in.	12 ft. 0 in.	12 ft. 4 in.	12 ft. 8 in.

go to Book Three

A	28 ÷ 12 =	30 ÷ 11 =	51 ÷ 12 =	51 ÷ 11 =	70 ÷ 11 =	72 ÷ 12 =

5 or 6 correct, go to page 61, A; 4 or less, go to B

B	31 − 24 =	41 − 33 =	53 − 44 =	72 − 66 =	58 − 48 =	71 − 60 =
	2 × 12 =	24 ÷ 12 =	26 ÷ 12 =	30 ÷ 12 =	32 ÷ 12 =	22 ÷ 12 =
	2 × 11 =	23 ÷ 11 =	31 ÷ 11 =	33 ÷ 11 =	40 ÷ 11 =	34 ÷ 12 =
	3 × 12 =	37 ÷ 12 =	39 ÷ 12 =	41 ÷ 12 =	45 ÷ 12 =	44 ÷ 11 =
	52 ÷ 11 =	4 × 12 =	48 ÷ 12 =	50 ÷ 12 =	54 ÷ 12 =	57 ÷ 12 =
	60 ÷ 11 =	60 ÷ 12 =	66 ÷ 12 =	66 ÷ 11 =	70 ÷ 11 =	70 ÷ 12 =
	56 ÷ 11 =	56 ÷ 12 =	62 ÷ 11 =	75 ÷ 11 =	78 ÷ 12 =	81 ÷ 12 =

go to page 61, A

C	81 ÷ 11 =	90 ÷ 12 =	101 ÷ 11 =	136 ÷ 11 =	140 ÷ 12 =	150 ÷ 12 =

5 or 6 correct, go to page 61, B; 4 or less, go to D

D	28 − 22 =	29 − 24 =	31 − 24 =	31 − 22 =	33 − 24 =	41 − 36 =
	50 − 48 =	51 − 44 =	60 − 55 =	70 − 66 =	72 − 66 =	80 − 72 =
	82 − 72 =	92 − 88 =	94 − 84 =	100 − 99 =	101 − 96 =	108 − 99 =
	121 − 110 =	120 − 108 =	140 − 132 =	131 − 121 =	149 − 144 =	141 − 132 =
	24 ÷ 12 =	30 ÷ 12 =	22 ÷ 11 =	31 ÷ 11 =	39 ÷ 11 =	40 ÷ 12 =
	51 ÷ 11 =	58 ÷ 12 =	60 ÷ 12 =	72 ÷ 12 =	70 ÷ 11 =	76 ÷ 12 =
	12 × 7 =	84 ÷ 12 =	90 ÷ 12 =	88 ÷ 11 =	93 ÷ 11 =	8 × 12 =
	100 ÷ 12 =	105 ÷ 12 =	99 ÷ 11 =	107 ÷ 11 =	10 × 12 =	10 × 11 =
	120 ÷ 12 =	120 ÷ 11 =	130 ÷ 12 =	11 × 11 =	11 × 12 =	124 ÷ 11 =
	124 ÷ 12 =	12 × 12 =	145 ÷ 12 =	150 ÷ 12 =	132 ÷ 11 =	140 ÷ 11 =

go to page 61, B

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